

		System Sensitivity (1W @1m) 88dB			
		Dispersion (-6dB) 90 degrees conical			
		Crossover 4.3kHz - 2nd order LF, 2nd order HF			
		Directivity Factor (Q) 10.6 averaged 1kHz to 10kHz			
		Directivity Index (DI) 9.6 averaged 1kHz to 10kHz			
		Construction enclosure ABS			
		2 Channel	Unit	2	Audio Amplifier - LUCIA 120/2
		Total output all channels 120W			
		Max output all channel driven 2, 4, 8 ohms 60W			
		Input connector 3-pin detachable screw terminal, electronically balanced			
		Input connector ch 1 & 2 unbalanced RCA type			
		Output connector 2-pin detachable screw terminals			
		Input 12 mic/line (switchable)	Unit	1	Audio input expander - SYMETRIX XIN12
		Connector 3.81 mm terminal blocks			
		Nominal input level +4 dBu with 20 dB of headroom			
		Max input level +23 dBu			
		Dimensions unit without microphone (H x W x D) 71 x 220 x 140 mm (2.8 x 8.7 x 5.5 in)	Unit	1	BOSCH ULTRO CCS 900S
		Height with microphone in horizontal position 134 mm (5.3 in)			
		Length of microphone from mounting surface CCS-DS CCS-DL 313 mm (12.3 in) 488 mm (19.2 in)			
		Weight approx. 1 kg (2.2 lb)			
11	Audio Control Processor System	Modular programming architecture	Ls	1	CRESTRON CP-3
		512 MB RAM			
		2 GB Flash Memory			
		Vector floating point coprocessor			
		One Rs-232/422/485 with hardware and software handshaking			
		8 IR/Serial, 8 relay, 8 versiport I/O ports			
		Full Unicode (multi-language) support			
		1 space rack mountable			
		Processor 1 x Analog Griffin ADSP-SC587 dual core DSP @500MHz	Unit	1	SYMETRIX Radius NX 12 x 8
		Raw processing 500 MIPS, 6 GFLOPS, 2 GMACS			
		Dynamic range (A/D/A) > 114 dB, A-weighted			
		Latency (A/D/A) 1.04ms, inputs routed to outputs			
		Delay memory 174 mono seconds			
		Max stored presets 1000			
12	Core Router	Height—1.71 in. (43.43 mm)	Unit	1	CISCO ASR1001-X

		Width—17.3 in. (439.42 mm)			
		Depth—22.50 in. (571.5 mm)			
		4 GB DRAM (upgradeable 16GB DRAM)			
		Supports two USB flash memory			
		Secure tokens			
		400-GB SATA SSD			
		6 x SFP ports, 2 x SFP+ ports			
		Rackmount			
		Support increase their network capacity and services without a hardware upgrade			
		Support upgrade individual software components in less time.			
		Support Advanced services can operate at high speeds without the need for additional hardware or blades			
		Upgradable through software-activated feature license to 10, 20, or 36 Gbps			
		Support Bandwidth 5 to 36 Gbps			
		Support Share the same control memory on route processor			
		Include Embedded hardware-based encryption			
		Include two shared port adapters			
		Include license upgrade 20G			
15	13	Switch	Total 10/100/1000 or Multigigabit copper ports : 24 Multigigabit UPOE (100 Mbps or 1, 2.5, 5, or 10 Gbps)	Unit	1
			Default AC power supply : 1100W AC		
			Available PoE power : 490W		
			StackWise-480 : Yes		
			StackPower : Yes		
			Default power supply : PWR-C1-1100WAC		
			Switching capacity : 640 Gbps on 24-port Multigigabit Ethernet model		
			Stacking bandwidth : 480 Gbps		
			Total number of MAC addresses : 32.000		
			Total number of IPv4 routes (ARP plus learned routes) : 32,000 (24,000 direct routes and 8000 indirect routes)		
			IPv4 routing entries : 32.000		
			IPv6 routing entries : 16.000		
			Multicast routing scale : 8000		
			QoS scale entries : 5120		
			ACL scale entries : 5120		
			Packet buffer per SKU : 32 MB buffer for 24-port Multigigabit		
			FNF entries : 128,000 flows on 24-port Multigigabit		
			DRAM : 8 GB		
			Flash : 16 GB		
			VLAN IDs : 4000		
			Total Switched Virtual Interfaces (SVIs) : 2000		
			Jumbo frames : 9198 bytes		
			Total routed ports per 9300 Series stack : 208		
			Wireless bandwidth per switch : Up to 48 Gbps on 24-port Gigabit Ethernet model		
			Forwarding rate : 154.76 Mpps		
			Dimensions (H x W x D) : 1.73 x 17.5 x 17.5 Inches		
			Weight : 16.33 Pounds		

		Mean time between failures (hours) : 299.000			
		Other Spesification :			
		Support up to 480 Gbps of local stackable switching bandwidth			
		Support Flexible and dense uplink offerings with 1G, Multigigabit, 10G, 25G, and 40G			
		Leading PoE capabilities with up to 384 ports of PoE per stack, 60W Cisco UPOE, and PoE+			
		Support IPv6 support in hardware, providing wire-rate forwarding for IPv6 networks			
		Support Software – defined access			
		Included 24-port mGig and UPOE, Network Advantage			
		Include redundant power supply			
		Include stacking cable 50 cm			
		Include stack power 30 cm			
		Include license DNA 3 years			
		Include network module 8 port 10 GE			
14 16	Rack Cabinet 42U	Dimensi External (mm) 800 x 1200 x 2040	Unit	1	Fortuna Rack Cabinet 42U
		Internal Depth (mm) 1120			
		Weight (kg) 225			
		Enclosure Racking System terbuat dari Galvanis Metal, Cold Steel (SGHC) dan painting Finishing Powder Coating			
		Top Cover Cable Way (4 lubang), sudah dipersiapkan untuk pemasangan Cable Ladder atau Tray pada sistem pemasangan Data Center			
		Front door double perforated dengan swinghandle			
		Back door double perforated dengan swinghandle			
		Pintu Samping dengan Cylinder Key lock dan termasuk juga Slide latch untuk setiap kunci pintu samping. Panels lift samping mudah untuk diakses			
		Di seluruh akses cabinet dilengkapi dengan Fastening Down Holes di frame bagian bawah dengan Cable Way untuk melindungi kabel dan mempermudah dalam instalasi			
		Grounding System, Cable Way dan Cabinet Lamp sudah tersedia			
		Tambahan Vertical Cable Manager dengan tipe Swing frame sehingga memudahkan untuk pemasangan dan perawatan kabel			
		Power distribution unit (PDU), 12 Stop Kontak DIN 49440, input 16A plug DIN 49441 dengan mempunyai Proteksi Terhadap Petir dan dilengkapi dengan Lampu & Over Current Protection 16 amp			
		Telah tersedia 4 jacking feet dengan max rating up to 1.000 kg dan 6 fan (1140 CFM) dilengkapi dengan fan guard, sudah terpasang di Cabinet ini			
		Terdapat 50 buah Cage nut M6 + 50 buah baut M6			
		Sangat disarankan untuk pemakaian Blade Server atau perangkat Service yang membutuhkan Airflow yang baik			
		Rack telah tersedia dalam keadaan siap pakai disertai dengan Garansi 15 tahun			

15 17	Wallmount Plate	FacePlate 2 hole	Unit	1	Wallmount Plate RJ45 + RJ11 Panasonic
		Modular RJ45 Cat6			
		Modular RJ11			
		Inbow / Outbow			
16 18	Access Point Meraki	2.4 GHz 802.11b/g/n client access radio	Unit	2	Access Point - Cisco Meraki MR33
		5 GHz 802.11a/n/ac client access radio			
		2.4 GHz & 5 GHz WIDS/WIPS, spectrum analysis, and location analytics radio			
		2.4 GHz Bluetooth Low Energy (BLE) radio with beacon and BLE scanning support			
		Concurrent operations of all four radios			
		Supported frequency bands (country-specific restrictions apply): 2.412-2.484 GHz 5.150-5.250 GHz (UNII-1) 5.250-5.350 GHz (UNII-2) 5.470-5.600, 5.660-5.725 GHz (UNII-2e) 5.725 -5.825 GHz (UNII-3)			
		2 x 2 multiple input, multiple output (MIMO) with two spatial streams			
		SU-MIMO and MU-MIMO support			
		Maximal ratio combining (MRC) & Beamforming			
		20 and 40 MHz channels (802.11n), 20, 40, and 80 MHz channels (802.11ac)			
		Up to 256 QAM on both 2.4 GHz and 5 GHz bands			
		Packet aggregation			
		Power over Ethernet: 37 - 57 V (802.3af compatible)			
		Alternative 12 V DC input			
		Power consumption: 11W max (802.3af)			
		Power over Ethernet injector and DC adapter sold separately			
		Operating temperature: 32 °F to 104 °F (0 °C to 40 °C)			
		Humidity: 5 to 95% non-condensing			
		Dimension 8.5" x 4.3" x 1.3" (215 mm x 110 mm x 32 mm), not including deskmount feet or mount plate			
		Weight: 13.2 oz (376.5 g)			
		Integrated omni-directional antennas (3.8 dBi gain at 2.4 GHz, 3.9 dBi gain at 5 GHz)			
		1x 10/100/1000 BASE-T Ethernet (RJ45)			
		1x DC power connector (5.5 mm x 2.5 mm, center positive)			
		Integrated layer 7 firewall with mobile device policy management			
		Cloud managed access point			
		2x2 MU-MIMO 802.11ac Wave 2			
		1.3 Gbps* aggregate dual-band frame rate			
		Integrated Bluetooth Low Energy Beacon and scanning radio			
		Integrated enterprise security and guest access			

19 21	Access Control System	Model : Time Attendance & Access Control	Unit	3	Access Control System - FingerSpot Neo A-152NC
		Fingerprint Sensor Type : Optical Without Gel			
		Face Sensor Type : No			
		Display : 2.4" TFT Color Screen			
		Software : Fingerspot Personnel			
		Dimension : 103 x 103 x 31 mm			
		Fingerprint : Real 3,000			
		Face : -			
		Card : 3			
		User : 3			
		Transaction / Record : 100			
		Type : Fingerprint, Card, Password			
		Verification Time (sec) : < 1 sec			
		RFID: 64-bit, 125kHz : Yes			
		MIFARE: MF1S50/S70, 13.56MHz : No			
		Type : TCP/IP, USB Host (Flashdisk)			
		T9 Input : No			
		Self Service Query : Yes			
		Self Service Reader : No			
		Cloud Function : Yes			
		Camera : No			
		Schedule Bell : Yes			
		Short Messaging : No			
		Electric Lock : Yes			
		Release Button : Yes			
		Door Sensor : Yes			
		Alarm : Yes			
		Antipassback : Yes			
		Timezone, Group, Unlock Combination : Yes			
		Power Input : DC 12V 1A			
		Backup Battery : No			
		Wall Mounted : Yes			
		Temperature (°C) : 0 - 45			
		Humidity (%) : 20-80			
20 22	CCTV IP Cam 1080p	Operating Conditions: -30 °C to 50 °C (-22 °F to 122 °F), humidity: 95% or less (non-condensing)	Set	1	HikVision Camera IP Dome DS-2CD2146G1-I(S)
		Power Supply: 12 VDC ± 25%, 5.5 mm coaxial power plug ,PoE (802.3af, class 3)			
		Power Consumption: 12 VDC, 0.7 A, max: 8.5 W			
		PoE: (802.3af, 36 V to 57 V), 0.3 A to 0.2 A, max: 10 W			
		Impact Protection: IK10			
		Weather Proof: IP67 (If the camera is installed outdoor, the bracket DS-1253ZJ-* should be used together with other pendant mounting bracket or wall mounting bracket to reduce IR reflective in the rainy day)			
		IR Range: Up to 30m			
		Dimensions: Camera: Ø 121.4 x 92.2 mm (Ø 4.8" x			

		3.6")			
		Weight: Camera: 600 g (1.3 lb.) With package: 760 g (1.7 lb.)			
		Image Sensor: 1/2.7" Progressive Scan CMOS			
		Signal System: PAL/NTSC			
		Min. Illumination: Color: 0.007 Lux @ (F1.2, AGC ON), 0.012 Lux @ (F1.6, AGC ON)			
		Shutter time: 1/3 s to 1/100,000 s			
		Slow shutter: Support			
		Lens: 2.8 mm, horizontal FOV: 104°, vertical FOV: 58°, diagonal FOV: 124° 4 mm, horizontal FOV: 83°, vertical FOV: 44°, diagonal FOV: 99° 6 mm, horizontal FOV: 51°, vertical FOV: 28°, diagonal FOV: 58°			
		Lens Mount: M12			
		Adjustment Range: Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°			
		Day& Night: IR cut filter with auto switch			
		Wide Dynamic Range: 120 dB			
		Digital noise reduction: 3D DNR			
		Focus: Fixed			
		Video Compression: H.265/H.264/MJPEG			
		Video bit rate: 32Kbps~16Mbps			
		Max. Image Resolution: 2688 × 1520			
		Frame Rate: 50Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)			
		Sub Stream: 50Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)			
		Image Enhancement: BLC/3D DNR			
		Image Settings: Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser			
		ROI: Support 1 fixed region for main stream and sub stream separately			
		Day/Night Switch: Day/Night/Auto/Schedule/Triggered by Alarm In(S)			
		Network Storage: microSD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR			
		Protocols: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour			
		System Compatibility: ONVIF (Profile S, Profile G),ISAPI			
		Communication Interface: 1 RJ45 10M/100M self-adaptive Ethernet port			
		On-board storage: Built-in Micro SD/SDHC/SDXC slot, up to 128 GB			
		Reset Button: Yes			
21 23	NVR HD 1080	Two-way audio input : 1-ch, RCA (2.0 Vp-p, 1kΩ)	Unit	1	Hikvision NVR DS-7616NI-Q2
		IP video input : 16-ch			
		Incoming bandwidth: 160Mbps			

		1.8GHz dual-core Intel Core i5 with 3MB L3 cache			
		8GB of 1600MHz LPDDR3 SDRAM			
		256GB PCIe-based SSD			
		Intel HD			
		MacOS			
24	Alat Komunikasi Smartphone / tablet	Super AMOLED capacitive touchscreen, 16M colors	Unit	12	Samsung A7
		6.0 inches, 91.4 cm2 (~74.4% screen-to-body ratio)			
		Android OS minimal 8 Oreo			
		64 GB, 4 GB RAM			
		Exynos 7885 Octa (14 nm)			
		Octa-core (2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53)			
		Mali-G71			
25	Tablet	IOS OS	Unit	1	Apple Ipad
		9,7 inch			
		32GB			

Semarang, 1 April 2019
PT. Media Sarana Data



Priyo Suyono
Direktur

		Outgoing bandwidth: 80Mbps				
		HDMI Output: 1-ch, resolution:4K (3840 × 2160)/30Hz,1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 ×1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz.				
		Audio Output: 1-ch, RCA (Linear, 1kΩ)				
		VGA Output: 1-ch, resolution: 1920*1080P/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz				
		Decoding format: H.265/H.265+/H.264/H.264+/MPEG4				
		Capability: 1-ch @ 8 MP / 4-ch @ 1080p				
		Live view / Playback: 8MP/6MP/5MP/3MP/1080p/UXGA/720p/VGA/4CIF/ DCIF/2CIF/CIF/QCIF				
		SATA: 2 SATA interfaces				
		Capacity: Up to 6TB capacity for each HDD				
		Network Interface: 1RJ-45 10/100/1000Mbps self-adaptive Ethernet interface				
		USB Interface: 2, USB2.0				
		Working Temperature: -10 oC ~ +55 oC (+14 oF~ + 131 oF)				
		Working Humidity: 10 % ~ 90 %				
		Chassis: 1U chassis				
		Dimensions: 385 × 315 × 52 mm (15.2"x 12.4" × 2.0")				
		Weight(without HDD): ≤ 1 kg (2.2 lb)				
		Antarmuka : SATA 6Gb/s	Unit	1	HDD 2TB - Seagate Skyhawk Surveillance	
		Ruang Hard Disk yang Didukung : Hingga 8				
		Kamera yang Didukung : Hingga 64				
		OD Laju Transfer Terus Menerus Maks. : 180 MB/s				
		Cache : 64 MB				
		Tahan Noda : Ya				
		Siklus Load/Unload : 300.000				
		Kesalahan Baca yang Tidak Bisa Dipulihkan per Bit yang Dibaca, Maks : 1 per 10E14				
		Jam Dinyalakan per Tahun (24×7) : 8.760				
		Batas Laju Beban Kerja (WRL) : 180				
		MTBF : 1.000.000 jam				
		Garansi, Terbatas (tahun) : 3				
		Operasi (ambien, min °C) : 0				
		Operasi (casing hard disk, maks °C) : 70				
		Tidak beroperasi (ambien, min °C) : -40				
24	22	PC Desktop	Processor: Intel Core i7-7700T	Unit	20	LENOVO PC Desktop
			RAM: 8GB DDR4			
			HDD: 1TB			
			ODD: DVDRW			
			VGA: Intel HD Graphics			
			Konektivitas: Wifi + Bluetooth + NIC			
			Ukuran Layar: 23 Inch			
			Sistem Operasi: Windows 10 Pro 64 bit			
25	23	Laptop	13.3 - Inch (diagonal) LED	Unit	5	Macbook Air

TIMELINE SCHEDULE

Pekerjaan : Pengadaan Peralatan Studio Visual Sarana dan Prasarana Situation Room

No.	Deskripsi	Bulan 1				Bulan 2				Bulan 3				Keterangan
		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	
I	Pre Instalasi													
1	Persiapan & Pengadaan Barang													
2	Pemeriksaan dan Pengujian Barang													
3	Pemeriksaan alat kerja													
4	Mobilisasi barang													
5	Mobilisasi pekerja													
II	Bidang Pemasangan													
1	Pemeriksaan site dan bidang													
2	Kordinasi wilayah / site													
3	Marking dan ukur bidang													
4	Pembuatan utilitas kelistrikan pendukung													
III	Instalasi Audio & Visual System													
1	Penarikan kabel distribusi video													
2	Penarikan kabel distribusi audio													
3	Pemasangan Bracket & Pendukungnya													
4	Pemasangan Videowall & Perangkat Pendukungnya													
5	Pemasangan perangkat Video processing & Perangkat Pendukungnya													
6	Pemasangan perangkat Audio processing & Perangkat Pendukungnya													
7	Pemasangan perangkat Wireless Presentation & Perangkat Pendukungnya													
8	Pemasangan perangkat Audio System & Perangkat Pendukungnya													
9	Koneksi power / listik													
10	Koneksi seluruh kabel distribusi signal video dan audio													
IV	Instalasi Networking													
1	Penarikan kabel Jaringan PC & CCTV													
2	Instalasi Rack Server													
3	Instalasi Router													
4	Instalasi Switch													
5	Instalasi UPS													
6	Instalasi CCTV & Perangkat Pendukungnya													
7	Instalasi PC Desktop & Pendukungnya													
8	Instalasi Access Control System & Pendukungnya													
V	Setting System													
1	Setting Bracket Allignment & Perapihan Videowall													
2	Setting Color dan Kalibrasi Monitor Videowall													
3	Setting Perangkat Video dan Audio System													
4	Setting Perangkat Network System													
VI	Testing & Finishing													
1	Clearing Area													
2	Testing													
3	User Training													

Semarang, 1 April 2019

PT. Media Sarana Data



PT. MEDIA SARANA DATA

Priyo Suyono
Direktur

PERENCANAAN METODE PELAKSANAAN

Kejelasan

Metode pelaksanaan sebagai rumusan dalam pengendalian menyeluruh keseluruhan proses Pekerjaan Pengadaan Peralatan Studio Visual Sarana dan Prasarana Situation Room pada Biro Umum Sekretariat Daerah Provinsi Jawa Tengah. Pekerjaan Pengadaan Peralatan Studio Visual Sarana dan Prasarana Situation Room pada Biro Umum Sekretariat Daerah Provinsi Jawa Tengah, meliputi 6 bagian pekerjaan, yaitu Pre-Instalasi, Bidang Pemasangan, Instalasi Audio & Video System, Instalasi Networking, Setting System, dan Testing & Finishing.

Minggu ke-1 sampai dengan Minggu ke-2 :

Penerimaan dan Pengadaan Barang, serta Pemeriksaan dan Pengujian Barang.

Minggu ke-2 :

Pemeriksaan alat kerja, Mobilisasi barang dan Pekerja.

Minggu ke-3 :

Pemeriksaan site dan bidang, Koordinasi wilayah / site, Marking dan ukur bidang, Pembuatan utilitas dan penarikan pendukung.

Minggu ke-4 :

Penarikan kabel distribusi video dan audio, Pemasangan Bracket & Pendukungnya.

Minggu ke-5 :

Pemasangan Videowall & Perangkat Pendukungnya, dan Pemasangan perangkat Video processing & Perangkat Pendukungnya.

Minggu ke-6 :

Pemasangan perangkat Audio processing & Perangkat Pendukungnya, Pemasangan perangkat Wireless Presentation & Perangkat Pendukungnya, Pemasangan perangkat Audio System & Perangkat Pendukungnya.

Minggu ke-6 sampai dengan Minggu ke-7:

Penarikan kabel Jaringan PC & CCTV.

Minggu ke-7 :

Koneksi power / listrik, Koneksi seluruh kabel distribusi signal video dan audio, Instalasi Rack Server, Instalasi Router, Instalasi Switch dan Instalasi UPS.

Minggu ke-8 :

Instalasi CCTV & Perangkat Pendukungnya, Instalasi Access Control System & Pendukungnya.

Minggu ke-8 sampai dengan Minggu ke-10 :

Instalasi PC Desktop & Pendukungnya.

Minggu ke-11 :

Setting Bracket Allignment & Perapihan Videowall, Setting Color dan Kalibrasi Monitor Videowall, Setting Perangkat Video dan Audio System, Setting Perangkat Network System.

Minggu ke-12 :

Clearing Area, Testing, dan User Training.

Semarang, 1 April 2019

PT. Media Sarana Data



PT. MEDIA SARANA DATA

Privo Suyono
Direktur

mandiri

Nomor : R7.Br.YGS/ 03 /2019
Tanggal : 11 Maret 2019
Lampiran : --

Kepada :
Pokja Pemilihan 2
Gedung D Setda Provinsi Jawa Tengah
Jl. Pahwalan 9 Semarang

PT. Bank Mandiri (Persero) Tbk.
Cabang Yogyakarta Sudirman
Jl. Jenderal Sudirman No. 26
Yogyakarta 55232
Telp. 0274 - 586425 (Hunting)
Fax : 0274 - 586432

REFERENSI BANK

Dengan ini menerangkan bahwa :

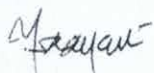
Nama Nasabah : PT. Media Sarana Data
Alamat : Jl. Dorodasih No. 11 A Patangpuluhan
Wirobrajan Yogyakarta
Nomor Rekening : 137 - 0007686823

Adalah benar pemegang rekening Giro Rupiah Mandiri pada PT Bank Mandiri (Persero) Tbk Cabang Yogyakarta Fisipol UGM Sejak Tanggal 06 Maret 2011.

Surat Referensi Bank ini diberikan sesuai permintaan yang bersangkutan sebagai "Kelengkapan Syarat Administrasi Pekerjaan Belanja Modal Peralatan dan Mesin Pengadaaan Peralatan Studio Visual Sarana dan Prasarana Situation Room".

Demikian agar Surat Referensi Bank ini untuk dipergunakan sebagaimana mestinya tanpa ada ikatan apapun pada pihak kami.

PT. Bank Mandiri (Persero) Tbk
Cabang Yogyakarta Sudirman


Yulia Widayanti
Branch Operation Manager


Wahyu Widayati
CSO

Daftar Tenaga Ahli/Teknis
Pengadaan Studio Visual Sarana dan Prasarana Situation Room

No	Nama	Ijazah Pendidikan	Sertifikat Keahlian	Pengalaman Kerja	Posisi yang diusulkan dalam	Ijazah Sertifikat pengalaman kerja
1	Demar Bahtiar	D3 Telekomunikasi	MTCINE	11 th	Network Engineering	terlampir
2	Indra Maulana Husni Mubarak	S1 Teknik Informatika	JNCIP-SP	3 th	Ahli Jaringan	terlampir

Dan dengan ini saya menyatakan bahwa tenaga ahli diatas sanggup untuk mengikuti pekerjaan Pengadaan Peralatan Studio Visual Sarana dan Prasarana Situation Room

Semarang, 1 April 2019
PT Media Sarana Data



Priyo Suyono
Direktur

Daftar Riwayat Hidup



1. Posisi yang diusulkan : Tenaga Ahli Teknik Informatika
2. Nama Perusahaan : PT. Media Sarana Akses
3. Nama Personil : Indra Maulana Husni Mubarak
4. Tempat/Tgl Lahir : Semarang, 17 April 1993
5. Pendidikan : S1 Teknik Informatika
6. Pendidikan Non Formal : Sertikat JNCIP-SP (Juniper Networks Certified Professional)
7. Pengalaman Kerja :
 - l. Tahun :
 - a. Nama Proyek : Project Fiber Optic Komunikasi Lintas Nusa
 - b. Lokasi Proyek : Semarang
 - c. Pengguna Jasa : Komunikasi Lintas Nusa
 - d. Nama Perusahaan : PT. Media Sarana Akses
 - e. Uraian Tugas : Integrator
 - f. Waktu Pelaksanaan : Januari 2014 – November 2016
 - g. Posisi Penugasan : Ahli Jaringan
 - h. Status pada perusahaan : Karyawan Tetap
8. Status Kepegawaian saat ini : Karyawan Tetap

Demikian daftar riwayat ini saya buat dengan sebenar-benarnya dengan penuh rasa tanggung jawab

Semoga dapat di pergunakan sebagaimana mestinya

Hormat saya

Sidik Pramono

UNIVERSITAS DIPONEGORO

PERATURAN PEMERINTAH NOMOR 7 TAHUN 1961

No. U. : 05484/S.Kom.

No. F. : 06117/00355 TI

Pimpinan Universitas Diponegoro dengan ini menyatakan bahwa:

98
cr
Indra Maulana Husni Mubarak

diterima pada tahun **2011**

NIM **24010311130040**

lahir di **Semarang**

tanggal **17 April 1993**

telah menyelesaikan

dan memenuhi segala syarat pendidikan pada

Program Sarjana Teknik Informatika,

sehingga kepadanya diberikan :

IJAZAH

dengan gelar akademik

SARJANA KOMPUTER (S.Kom.)

Lulus pada tanggal **30 Nopember 2015**

dan diberi hak untuk melanjutkan ke jenjang pendidikan yang lebih tinggi.

Diberikan di Semarang pada tanggal **25 Januari 2016**

DEKAN
FAKULTAS MATEMATIKA DAN
ILMU PENGETAHUAN ALAM

Prof. Dr. WIDOWATI, S.Si., M.Si.
NIP. 196902141994032002



REKTOR



Prof. Dr. YOS JOHAN UTAMA, S.H., M.Hum.
NIP. 196211101987031004

CERTIFICATE OF ACHIEVEMENT

This certifies that

Indra Maulana Husni Mubarak

is recognized as a

Juniper Networks

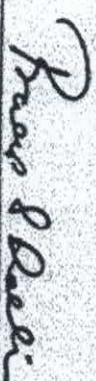
Certified Professional

Service Provider Routing and Switching (JNCIP-SP)

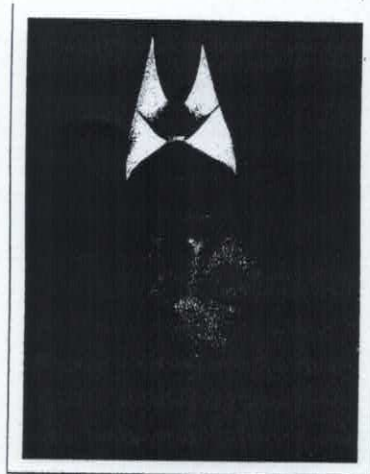
Monday, October 31, 2011



Ramli Rahim
Chief Executive Officer



Pradeep Sindhu
Vice Chairman



Nama : Demar Bahtiar, A.Md.
 Alamat tempat tinggal : Jl. Kintelan Baru No.225 Rt.02 Rw.03 Kel.Bendungan,
 Gajahmungkur, Semarang.
 Telepon : 0112971010.
 Tempat / Tanggal Lahir : Brebes, 08 Maret 1985.
 Status Perkawinan : Kawin.
 Keahlian : Analysis & Network Administrator.

Kursus – kursus yang diikuti :

1. Dasar dan Terminasi Fiber Optik untuk Jaringan FTTN.
2. Basic Microtik training – Essential (MTCNA).
3. Advance Microtik Training – Traffic Control (MTCCTCE).
4. Advance Microtik Training – Routing (MTCRE).
5. Advance Microtik Training – Inter Networking (MTCINE).

Pengalaman Kerja *)

1. Tahun 2006-2008, Digital Photograph, Jl. KH. Sirajudin Tembalang Semarang, Photoposter Digital, Design Gratis.
2. Tahun 2007-2010, Internet Service Provider, Jl. Mayjend Sutoyo No.16 Semarang, Data Utama Dinamika, Koordinator Technical Support.
3. Tahun 2010-saat ini, Internet Service Provider, Jl. Jangli Dalam No. 29j Semarang, PT Media Sarana Data, Assistant Operation Manager.

DEPARTEMEN PENDIDIKAN NASIONAL REPUBLIK INDONESIA
POLITEKNIK NEGERI SEMARANG

dengan ini menyatakan bahwa

Dennar Bahitlar

NIM : 3.33.03.5.06

lahir di

Brebes

, tanggal

08 Maret 1985

telah menyelesaikan

program pendidikan dengan baik dan memenuhi segala persyaratan pendidikan Diploma III

Politeknik Negeri Semarang pada Program Studi Teknik Telekomunikasi, Jurusan Teknik Elektro

dan sebab itu, kepadanya diberikan :

II J A Z A H

dengan sebutan profesional

Ahli Madya (A.Md.)

beserta segala hak dan kewajiban yang melekat pada sebutan tersebut.

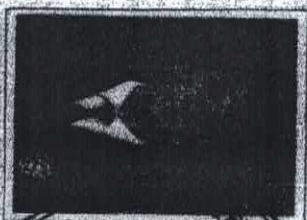
Dibuktikan di Semarang pada tanggal

12 September 2006

Ketua Jurusan Teknik Elektro,



Drs. Suhendro
NIP 131 792164



Drs. Suhendro, NIP
NIP 131 41 3224



Demar Bahthiar

having successfully completed the appropriate training and certification requirements, is hereby recognised as a MikroTik certified

MTCINE

1412INE059

2017-12-12

Valid for three years since issue. Validate the authenticity of this document at <http://www.mikrotik.com/certificates/>
Issued by MikroTiks SIA, Permaņas 46, Rīga, Latvia

SURAT KUASA

Yang bertanda tangan di bawah ini :

Nama : Priyo Suyono
Jabatan : Direktur
Alamat Tempat Tinggal : Jl. Semeru Dalam II No. 4, Semarang
No KTP - el : 3374100103800005

Untuk selanjutnya disebut sebagai **Pemberi Kuasa**.

Dengan ini menerangkan dan memberi kuasa kepada :

Nama : Adhi Darminto
Jabatan : General Manager
Alamat Tempat Tinggal : Jl. Sri Rejeki VI/6, Semarang
No KTP - el : 3374040111780002

Untuk selanjutnya sebagai **Penerima Kuasa**.

untuk menghadiri Pembuktian Kualifikasi terhadap tender Belanja Modal Peralatan dan Mesin Pengadaan Peralatan Studio Visual Sarana dan Prasarana Situation Room.

Penerima kuasa dapat melakukan tindakan-tindakan lainnya yang penting dan berguna untuk kepentingan tender tersebut dan melakukan hal-hal yang selayaknya dilakukan oleh seorang penerima kuasa sesuai dengan peraturan perundang-undangan.

Surat kuasa ini diberikan dengan hak substitusi baik sebagian maupun seluruhnya.

Semarang, 1 April 2019

Penerima Kuasa



Adhi Darminto
General Manager

Pemberi Kuasa



Priyo Suyono
Direktur



PT. Cipta Alpha Omega

No Surat : 03/SDK/CAO/III/2019
Perihal : Surat Dukungan

Kepada Yth,
Pokja Pemilihan 2 Biro Administrasi Pengadaan Barang/Jasa Setda Provinsi Jawa Tengah
Gedung D Setda Provinsi Jawa Tengah
Jl. Pahlawan 9 Semarang

Yang bertanda tangan di bawah ini :

Nama : Rachmad Nofendi
Jabatan : Direktur
Perusahaan : PT Cipta Alpha Omega
Alamat Perusahaan : Jl. Pantai Indah Barat PIK Avenue Mall Lt.6 No.1 RT.005 RW.006, Kamal Muara,
Penjaringan, Jakarta Utara, DKI Jakarta

Sebagai Distributor di Indonesia untuk produk merk Kramer type Kramer CLS-AOCH-66 memberikan dukungan kepada :

Nama Perusahaan : PT. Media Sarana Data
Alamat Perusahaan : Jl. Daradasih No. 11A, Patangpuluhan, Wirobrajan, Yogyakarta 55251

Untuk pekerjaan pengadaan : Pengadaan Peralatan Studio Visual Sarana dan Prasarana Situation Room

Surat dukungan ini meliputi :

- Barang yang ditawarkan 100% baru/ bukan barang rekondisi, bukan dari pasar gelap/ blackmarket.
- Memberikan layanan purna jual.
- Sanggup memberikan garansi suku cadang selama 2 (dua) tahun.
- Sanggup memberikan surat jaminan pemeliharaan selama 2 (dua) tahun, selama masa pemeliharaan sanggup memperbaiki kerusakan dalam waktu 7 (tujuh) hari kerja.

Demikian surat dukungan ini dibuat untuk dipergunakan sebagaimana mestinya.

Jakarta , 11 Maret 2019
PT Cipta Alpha Omega



Rachmad Nofendi
(Direktur)



KRAMER

CLS-AOCH

Active Optical High-Speed HDMI Cable -
Low Smoke & Halogen Free

| HDMI | 4K/60 UHD (4:2:0)



Kramer's AOCH is an Active Optical HDMI Cable running 4K@60Hz (4:2:0), 4K@30Hz (4:4:4), over longer distances up to 100m (328ft), in a simple and practical way.

The AOCH cables are thinner, lighter and more flexible than copper or even standard optical cables. They provide transparent EDID and HDCP support without signal attenuation. They reduce the risk of EMI and RFI interference to provide a perfect solution for critical AV installations that demand the highest signal integrity

FEATURES

- Video Resolution - 4K@60Hz (4:2:0), 4K @30Hz (4:4:4), 8-bit, full HD, 3D Deep Color across all lengths
- High Data Transfer Rate - Up to 10.2Gbps
- Embedded Audio - PCM 8-channel, Dolby Digital True HD and DTS-HD Master Audio
- High-Quality Connectors - 24K gold-plated, corrosion-resistant and best possible connectivity
- EMI & RFI Immunity
- No External Power - Powers the active units via the HDMI connector
- Thin Construction - 3.4mm (0.13") diameter
- Small Bending Radius - Only 6mm (0.24")
- Jacket Construction - Low smoke & halogen free
- RoHS 2011/65/EU Compliant
- Varied Selection of Lengths - Available in versions from 10 to 100m (33 to 328ft)



KRAMER

TECHNICAL SPECIFICATIONS

VIDEO RESOLUTION: 4K @60Hz 4:2:0, 4K@30Hz 4:4:4, 8Bit, full HD, 3D Deep Color

MAX. DATA RATE: Up to 10.2Gbps

SUPPORTED COLOR RGB, YCbCr, xvYCC, Adobe sRGB, sYCC601 SPACES:

EMBEDDED AUDIO: Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio™, DVD Audio, SA-CD

HDMI COMPLIANCE: HDCP 2.2, EDID, CEC

CONNECTORS: Male HDMI Type A, 24K gold-plated

CABLE STRUCTURE: Hybrid optical fiber cable

FIBER OPTIC: Multi-mode fiber

CONDUCTORS: 6x28AWG (7/0.127mm)

OUTER SHEATH MATERIAL: LSHF or plenum

OUTER SHEATH COLOR: Gray

OUTER SHEATH DIAMETER: 3.4mm

CABLE BENDING RADIUS: 6mm

CONNECTOR MAX. PULLING STRENGTH: 15lbs

MAX. COMPRESSION 500N (50kg, 110lbs)
LOAD RESISTANCE:

POWER SUPPLY: No external power supply needed (draws current from the source). If source power is not sufficient, connect the AD-HM/HF/UAM – USB to HDMI power injector to an external power

POWER CONSUMPTION: 0.25W max

OPERATING TEMPERATURE: +32~+122°F (0~+50°C)

STORAGE TEMPERATURE: -22~+122°F (0~+50°C)

OPERATING HUMIDITY: 5 ~ 85%

LSHF (COMPLIANCE): IEC 60332-1, IEC 60754-1, IEC 61034-2

PLENUM (COMPLIANCE): CMP-OF

RoHS: 2011/65/ EU



KRAMER

CONFIGURATIONS

CLS-AOCH-33	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-50	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-66	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-98	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-131	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-164	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-197	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-230	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-262	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-295	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free
CLS-AOCH-328	Active Optical High-Speed HDMI Cable - Low Smoke & Halogen Free



Institute of
Quality & Control

PT. CIPTA ALPHA

CERTIFICATE

NO. I16625

This is to certify that
the Quality Management System of

Kramer Electronics Ltd.

3 Am Veolamo St. Jerusalem, Israel

Was audited by IQC and found to be
in compliance with the requirements of the standard:

ISO 9001:2015

This certificate is valid for
the following scope of activities:

**Development, manufacturing and marketing of video,
audio and control products & solutions**

This certificate is valid until: 23.12.2021

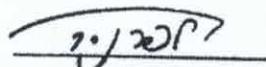
Certification cycle will end on: 23.12.2021

Date of first approval: 23.12.2003

This certificate is subject to the continuing satisfactory operation
of the Management System and periodic auditing by IQC



25.06.2018
Issue date


Nir Halpern, CEO

Institute of Quality & Control Ltd.
Gavmizky St., Petah Tikva 4900617, Israel
Tel: 03-9311553, Fax: 03-961140
E-Mail: info@iqc.co.il, iqc@iqc.co.il



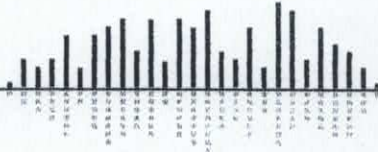
MGMT. SYS.
RvA C 560

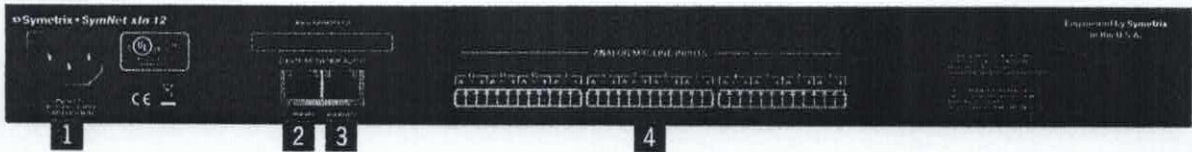


xIn 12

- Audio input (A/D) expander for Symetrix systems that capitalizes on the surplus DSP of a Radius, Edge, or Prism DSP to bring the overall system costs down.
- 12 mic/line inputs, including +48 VDC phantom power, with the industry leading performance specifications of Radius, Edge and Prism DSPs.
- Configured with Composer. No third-party software, archaic DIP switches, or complicated front panel menus.
- Network audio expansion using Dante protocol over standard IT networks. Ultra-low latency.
- Built-in switch for Dante provides direct connection to a Dante-enabled Symetrix system and daisy-chaining of up to 10 units without additional network hardware.

Electrical Specifications	
Items	Specifications
Sampling rate	48 kHz, ± 100 ppm.
Frequency response (A/D)	20 Hz – 20 kHz, ± 0.5 dB.
Channel separation (A/D)	> 111 dB @ 1 kHz, +24 dBu.
Dante cable	Standard CAT6, maximum device to device length = 100 meters.
Connectors	3.81 mm terminal blocks.
Number of inputs	Twelve (12) switchable balanced mic or line level.
Nominal input level	+4 dBu with 20 dB of headroom.
Maximum input level	+23 dBu.
Mic pre-amp gain	0, 11.8, 24, 44 or 54 dB switchable.
Mic pre-amp EIN	< -127 dB with 150 Ohm source impedance.
CMRR	> 76 dB @ 1 kHz, unity gain.
Input impedance	8k Ohms balanced, 4k Ohms unbalanced.
Phantom power (per input)	+48 VDC @ 10 mA maximum.
Dynamic range	> 116 dB, A-weighted.
THD + Noise	< -100 dB, unweighted; 1 kHz @ +22 dBu with 0 dB gain.
Latency	0.28 mS.





- 1

Power: Accepts power from detachable IEC power cable (100-240 VAC, 50-60 Hz, 25 Watts max).
- 2

Dante (Primary): 1000 Base-T Ethernet port provides 128 (64x64) channels of Dante network audio.
- 3

Dante (Secondary): 1000 Base-T Ethernet port for redundant Dante network audio implementation.
- 4

Analog Inputs: Twelve channels of mic/line input with phantom power.



Mechanical Specifications		
Items	Specifications	Remarks
Space Required	1U (WDH: 18.91 in x 9.5 in x 1.72 in / 48.02 cm x 24.13 cm x 4.37 cm). Depth does not include connector allowance.	Allow at least 3 inch additional clearance for rear panel connections. Additional depth may be required depending upon your specific wiring and connections.
Electrical	100-240 VAC, 50/60 Hz, 25 Watts maximum universal input.	No line voltage switching required.
Ventilation	Maximum recommended ambient operating temperature is 30 C / 86 F.	Ensure that the left and right equipment sides are unobstructed (5.08 cm, 2 in. minimum clearance). The ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths, curtains, etc.
Shipping Weight	12 lbs. (5.4 kg).	
Certifications or Compliance	UL 60065, cUL 60065, IEC 60065, EN 55103-1, EN 55103-2, FCC Part 15, RoHS.	

Architect and Engineer Specifications: xln 12.

The device shall provide twelve analog mic/line inputs that are adjustable from line to mic level with coarse gain and phantom power. Levels and phantom power shall be controllable via online connection with software only. Audio connections shall be accessed via rear panel 3.81 mm terminal block connectors.

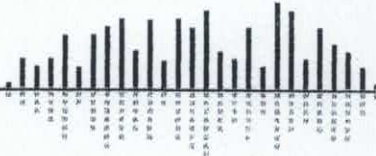
Network audio expansion shall be provided by the Dante protocol. Primary and Secondary Dante network audio connections shall be provided for redundant network implementation. Connectors shall be gigabit RJ45 utilizing CAT6 cable.

A designer software application shall be provided that operates on a Windows computer, with network interface installed, running Windows® XP or higher operating system. Computer connection for configuration shall be via a hosting DSP unit's rear panel Ethernet connector that communicates with the device via Dante.

The front panel shall include input signal level indicators as well as indicators for POWER and DANTE (PRIMARY and SECONDARY).

Audio conversion shall be 24-bit, 48 kHz and the dynamic range shall not be lower than 116 dB, A-weighted with a maximum input level of +23 dBu.

The device shall have an IEC power input socket for 120-240 VAC. The device shall meet UL/CSA and CE safety requirements and comply with CE and FCC Part 15 emissions limits. The device shall be RoHS compliant. The chassis shall be constructed of cold rolled steel and moulded plastic, and mount into a standard 19" 1U EIA rack. The device shall be a Symetrix xln 12.





PT. SYNNEX METRODATA INDONESIA

MR33

Dual-band, 802.11ac Wave 2 2x2:2 MU-MIMO Access Point with dedicated security and RF management radio as well as integrated Bluetooth Low Energy beacon and scanning radio



Entry-level cloud-managed 802.11ac wireless

The Cisco Meraki MR33 is a quad-radio, cloud-managed 2x2:2 802.11ac Wave 2 access point with MU-MIMO support. Designed for next-generation deployments in offices, schools, hospitals, shops, and hotels, the MR33 provides performance, enterprise-grade security, and simple management.

The MR33 provides a maximum 1.3 Gbps* aggregate frame rate with concurrent 2.4 GHz and 5 GHz radios. A dedicated third radio provides real-time WIDS/WIPS with automated RF optimization. An integrated Bluetooth Low Energy (BLE) radio delivers beacon and scanning capabilities.

The combination of cloud management, 802.11ac Wave 2, full-time RF environment scanning, and integrated Bluetooth technology delivers the throughput, reliability, and flexibility required by demanding business applications like voice and high-definition streaming video, today and tomorrow.

MR33 and Meraki Cloud Management: A Powerful Combination

The MR33 is managed through the Meraki cloud, with an intuitive browser-based interface that enables rapid deployment without training or certifications. Since the MR33 is self-configuring and managed over the web, it can even be deployed at a remote location without on-site IT staff.

The MR33 is monitored 24x7 via the Meraki cloud, which delivers real-time alerts if the network encounters problems. Remote diagnostics tools enable real-time troubleshooting over the web, meaning multi-site, distributed networks can be managed remotely.

The MR33's firmware is always kept up to date from the cloud. New features, bug fixes, and enhancements are delivered seamlessly over the web, meaning no manual software updates to download or missing security patches to worry about.

Product Highlights

- 2x2 MU-MIMO 802.11ac Wave 2
- 1.3 Gbps* aggregate dual-band frame rate
- 24x7 real-time WIPS/WIDS, spectrum analytics, and WiFi location tracking via dedicated 3rd radio
- Integrated Bluetooth Low Energy Beacon and scanning radio
- Integrated enterprise security and guest access
- Application-aware traffic shaping
- Optimized for voice and video
- Self-configuring, plug-and-play deployment
- Sleek, low-profile design blends into any environment

Features

Aggregate data rate of up to 1.3 Gbps*

A 5 GHz 2x2:2 radio supporting 80 MHz channel widths and a 2.4 GHz 2x2:2 radio supporting 40 MHz channel widths offer a combined dual-radio aggregate frame rate of 1.3 Gbps*, with up to 866 Mbps in the 5 GHz band thanks to 802.11ac Wave 2 and 400 Mbps in the 2.4 GHz band.

Multi User Multiple Input Multiple Output (MU-MIMO)

With support for the 802.11ac Wave 2 standard, the MR33 offers MU-MIMO for more efficient transmission to multiple clients. Especially suited for environments with numerous mobile devices, MU-MIMO enables multiple clients to receive data simultaneously. This increases the total network performance and improves the end user experience.

Dedicated third radio delivers 24x7 wireless security and RF analytics

The MR33's sophisticated, dedicated dual-band third radio scans the environment continuously, characterizing RF interference and containing wireless threats like rogue access points. No more need to choose between wireless security, advanced RF analysis, and serving client data: a dedicated third radio means that all three occur in real-time, without any impact to client traffic or AP throughput.

Bluetooth low energy Beacon and scanning

An integrated Bluetooth low energy radio provides seamless deployment of BLE Beacon functionality and effortless visibility of BLE devices within range of the AP. The MR33 enables the next generation of location-aware applications and engagement right out of the box.

Automatic cloud-based RF optimization

The MR33's sophisticated, automated RF optimization means that there is no need for the dedicated hardware and RF expertise typically required to tune a wireless network. The real-time full-spectrum RF analysis data collected by the dedicated third radio is continuously fed back to the Meraki cloud. The Meraki cloud then automatically tunes the MR33's channel selection, transmit power, and client connection settings for optimal performance under the most challenging RF conditions.

Secure wireless environments using 24x7 Air Marshal

No longer choose between a wireless intrusion prevention system (WIPS) and serving client data: thanks to the dedicated third radio, Air Marshal, a highly optimized built-in WIPS, scans continuously for threats and remediates them as commanded, all without disrupting client service. Alarms and optional auto-containment of rogue APs are configured via flexible remediation policies, ensuring optimal security and performance in even the most challenging wireless environments.



PT. SYNNEX METRODATA INDONESIA

Integrated enterprise security and guest access

The MR33 features integrated, easy-to-use security technologies to provide secure connectivity for employees and guests alike. Advanced security features such as AES hardware-based encryption and WPA2-Enterprise authentication with 802.1X provide wire-like security while still being easy to configure. One-click guest isolation provides secure, Internet-only access for visitors. Our policy firewall (Identity Policy Manager) enables group or device-based, granular access policy control. Meraki Teleworker VPN makes it easy to extend the corporate LAN to remote sites, without requiring all clients and devices to have client VPN software. PCI compliance reports check network settings against PCI requirements to simplify security retail deployments.

Application-aware traffic shaping

The MR33 includes an integrated layer 7 packet inspection, classification, and control engine, enabling you to set QoS policies based on traffic type. Prioritize your mission critical applications, while setting limits on recreational traffic, e.g., peer-to-peer and video streaming.

Voice and Video optimizations

Industry standard QoS features are easy to configure like Wireless Multi Media (WMM) Access Categories, 802.1p, and DSCP.

Low-profile, sleek, and compact design

Despite its robust feature set, the MR33 is packaged in a sleek, low profile enclosure that blends seamlessly into any environment.

Self-configuring, self-optimizing, self-healing

When plugged in, the MR33 automatically connects to the Meraki cloud, downloads its configuration, and joins the appropriate network. The MR33 then self-optimizes, determining the ideal channel, transmit power, and client connection parameters. As necessary, it will also self-heal, responding automatically to switch failures and other errors.



PT. SYNNEX METRODATA INDONESIA

*Refers to maximum over-the-air data frame rate capability of the radio chipset, and may exceed data rates allowed by IEEE Std 802.11ac-compliant operation.

KEMENTERIAN KOMUNIKASI DAN INFORMATIKA
DIREKTORAT JENDERAL SUMBERDAYA DAN
PERANGKAT POS DAN INFORMATIKA
REPUBLIK INDONESIA

MINISTRY OF COMMUNICATIONS AND INFORMATION TECHNOLOGY
DIRECTORATE GENERAL OF RESOURCES AND EQUIPMENT
FOR POST AND INFORMATION TECHNOLOGY
THE REPUBLIC OF INDONESIA

SERTIFIKAT | CERTIFICATE

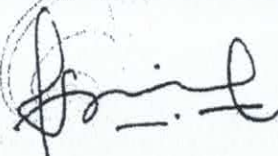
NOMOR : 50776/SDPPI/2017

PERMEN KOMINFO NOMOR : 28 TAHUN 2015,	
Referensi : Reference	PLG ID : 3965 Client's ID
Jenis Perangkat : Wireless Access Point Name of Equipment	Diajukan Oleh : SYNNEX METRODATA INDONESIA, Proposed by PT.
Buatan : TAIWAN Country of Origin	Alamat : APL Tower 42nd Floor Suite Address 1-8, Jl. Letjen S. Parman kav. 28, Kel. Tanjung Duren Selatan, Kec. Grogol Petamburan, 11470, Jakarta Barat
Merek : Cisco Trade Mark	Tanggal Terbit : 13 Juni 2017 Date of Issue
Model/Type : MR33-HW	Masa Berlaku : 13 Juni 2020 Valid Until
Frekuensi Kerja : Operating Frequencies	WLAN 2,4 GHz : 2,4 GHz - 2,4835 GHz Daya Pancar : < 100 mWatt WLAN 5,8 GHz : 5,725 GHz - 5,825 GHz Daya Pancar : < 20 dBm



PT. SYNNEX METRODATA INDONESIA

A.N. MENTERI KOMUNIKASI DAN INFOMATIKA
DIREKTUR JENDERAL SUMBER DAYA DAN PERANGKAT POS DAN INFORMATIKA
FOR MINISTER COMMUNICATION AND INFORMATION TECHNOLOGY
DIRECTOR GENERAL OF RESOURCES AND EQUIPMENT FOR POST AND INFORMATION TECHNOLOGY



ISMAIL





PT. SYNNEX METRODATA INDONESIA

No. 000112/2019/SMI

11 Maret 2019

Kepada Yth.

**POKJA PEMILIHAN 2 BIRO ADMINISTRASI PENGADAAN BARANG/JASA
SETDA PROVINSI JAWA TENGAH
GEDUNG D SETDA PROVINSI JAWA TENGAH
JL. PAHLAWAN 9
SEMARANG**

Dengan hormat,

Perihal: Surat Dukungan

Sehubungan dengan adanya "PENGADAAN PERALATAN STUDIO VISUAL SARANA DAN PRASARANA SITUATION ROOM NO. 01.25/POKJAPIL 02/BAPBJ/III/2019", PT. Synnex Metrodata Indonesia sebagai Authorized Distributor dari produk VERTIV di Indonesia, dengan ini menjamin untuk mendukung :

**PT. MEDIA SARANA DATA
JL. DARADASIH NO. 11A
PATANGPULUHAN, WIROBRAJAN
YOGYAKARTA 55251**

yang ikut serta dalam pengadaan tersebut di atas sejauh Produk di atas tersebut berasal dari kami.

Untuk kepastian bahwa barang-barang tersebut dari kami, maka kami akan mengeluarkan surat jaminan dengan menyebutkan nomor seri yang sah dikeluarkan oleh VERTIV bersamaan dengan pengiriman Produk Liebert ITA2 10KVA/10KW kepada PT. MEDIA SARANA DATA apabila menang dalam pengadaan tersebut dan barang dibeli dari PT. Synnex Metrodata Indonesia.

Surat Dukungan ini valid apabila Produk yang dibeli berasal dari PT. Synnex Metrodata Indonesia.

Hormat kami,
PT. Synnex Metrodata Indonesia



Rulie Kurniawan
Channel Sales Manager

No. 000112/2019/SMI

11 Maret 2019

Kepada Yth.
**POKJA PEMILIHAN 2 BIRO ADMINISTRASI PENGADAAN BARANG/JASA
SETDA PROVINSI JAWA TENGAH
GEDUNG D SETDA PROVINSI JAWA TENGAH
JL. PAHLAWAN 9
SEMARANG**

Dengan hormat,

Perihal: Jaminan Purna Jual

PT. SYNNEX METRODATA INDONESIA sebagai Authorized Distributor dari produk **VERTIV** di Indonesia, dengan ini memberikan dukungan purna jual (warranty) sebagai berikut:

- **Liebert ITA2 10KVA/10KW**

Dukungan purna jual (warranty) standart untuk produk tersebut diatas adalah 2 (dua) tahun.

Kami memberikan garansi penuh untuk produk tersebut diatas yang diikutsertakan dalam pengadaan ini yang sah dikeluarkan oleh **VERTIV**.

Demikian surat ini dikeluarkan sehubungan dengan **"PENGADAAN PERALATAN STUDIO VISUAL SARANA DAN PRASARANA SITUATION ROOM NO. 01.25/POKJAPIL 02/BAPBJ/III/2019"**.

Surat Jaminan Purna Jual ini valid apabila Produk yang dibeli berasal dari PT. Synnex Metrodata Indonesia.

Hormat kami,
PT. Synnex Metrodata Indonesia



Rulie Kurniawan
Channel Sales Manager

LIEBERT® ITA2 10 - 20 kVA

Flexible Power Protection for Rack or Tower Installation



Remarkable Efficiency and Flexibility Characterize the Liebert® ITA2 UPS

Featuring true online double conversion technology, unity power factor and an extremely compact rack-tower design, Liebert ITA2 is the perfect power protection solution for your computer room, storage and network equipment.

With a unity output power factor, Liebert ITA2 perfectly matches the needs of modern IT loads, and with its wide input voltage and frequency range it effectively reduces the need for battery intervention, thus prolonging battery life.

It is also endowed with intelligent fans with automatic speed control, which effectively save energy and reduce noise.

Liebert ITA2 supports common battery configurations between paralleled UPS and the number of batteries per string, which can be arranged flexibly, facilitating the utilization of different battery systems and saving on battery investment.

An extra powerful battery charger across all models capable of recharging high capacity battery strings ensures a fast charge-restoration even after a prolonged power outages.

Liebert ITA2 offers enhanced flexibility with a wide range of accessories for both stand-alone and rack-mount installations. When rack mounted, it allows to install up to 20 kVA in just 3 U of space, achieving a remarkable space saving. Parallelability and maintenance are facilitated through the use of dedicated maintenance bypass option while extended backup time can be provided with matching battery modules for a neat rack-mounted installation. Liebert ITA2 features a multi-lingual LCD user interface allowing close control and monitoring of system status and performance.

The Liebert ITA2 series is ideally suited for:

- Small computer rooms
- Long backup time applications
- Branch offices
- Servers
- Network computers and peripherals
- Storage device
- VoIP

Product Features:

- Rack-tower design for installation flexibility
- Able to deliver both three-phase and single-phase output
- Ultra high power density, thanks to 30% reduced dimensions compared to the previous generation
- 0.99 input power factor for better grid or generator compatibility
- Unity output power factor for additional power availability
- Efficiency in double conversion up to 96.2%
- ECO mode operation with efficiency up to 99% and remarkable energy saving performance
- Powerful charging capability for minimum battery recharging time

The UPS is compatible with any Building Management System (BMS) by offering the following communication features:

- Voltage-free contact ports
- USB interface
- Vertiv™ IntelliSlot™ for SNMP, Modbus or Relay communication



Liebert ITA2 10 - 20 kVA



PT. SYNNEX METRODATA INDONESIA

Liebert® ITA2 10 - 20 kVA Specifications

TECHNICAL SPECIFICATIONS

Ratings (kVA)	10	15	20
---------------	----	----	----

INPUT

Nominal input voltage (V)	380/400/415 (three-phase + neutral)		
Input voltage range without battery discharge (V)	173 to 498*		
Nominal input frequency (Hz)	50/60		
Input frequency range (Hz)	40-70		
Bypass voltage tolerance (%)	selectable from +20 to -40		
Bypass frequency tolerance (%)	±20 (±10 selectable)		
Input power factor at full load (kW/kVA)	0.99		
Current THD at full linear load (THDI%)	≤3*		

BATTERY MANAGEMENT

Battery blocks per string	24-40*
Voltage temperature compensation (mV/°C/Cell)	-3mV/°C/Cell
Battery charger max. current (A)	13

OUTPUT

Nominal output voltage (V)	380/400/415 (three-phase) or 220/230/240 (single-phase)		
Nominal output frequency (Hz)	50/60		
Maximum active power (kW)	10	15	20
THDv at full linear load (%)	≤2		
Inverter overload capacity at 25°C	105% for 60 min; 125% 5min; 150% for 1 min, > 150%, 200ms		

EFFICIENCY

Double conversion efficiency	Up to 96.2%
ECO Mode Efficiency	Up to 99%

DIMENSIONS AND WEIGHT

Dimensions (W x D x H) (mm)	430 x 500 x 130 (3U)
Net Weight (kg)	23

GENERAL

Noise at 1 m (dBA)	≤58
Ventilation	Front to back
Maximum altitude	1500 m without derating (max. 3000 m)
Protection level IEC (60529)	IP20
EMC requirements for UPS	EN/IEC/AS 62040-2
UPS classification according to CEI EN 62040-3	VFI-SS-111
General and safety requirements for UPS	EN/IEC/AS 62040-1

* Conditions apply

19th Dec 2008

TO WHOM IT MAY CONCERN

Dear Sir/Madam,

RE: EXCLUSIVE DISTRIBUTOR APPOINTMENT

This is to certify that:

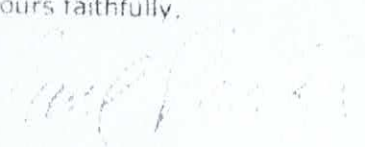
PT GRACIA AUVINDO

KanTo D-22, Superblok Mega Kemayoran
Jl. Angkasa Kav B-6, Kota Baru Bandar Kemayoran
Jakarta Pusat - 10610

Are currently appointed as the **Exclusive Distributor for Symetrix** within territory of Indonesia.

As Exclusive Distributor, they will be responsible to promote, distribute and perform after sales service for Symetrix.

Yours faithfully,


Paul Roberts | Director of Sales
Symetrix, Inc.



TO WHOM IT MAY CONCERN

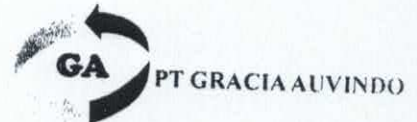
MUSIC Group, a global technology company, designs and manufactures Audio products for professional markets. As the corporate parent for world- recognized brands such as TANNOY, LAB GRUPPEN, LAKE, TC HELICON, TC ELECTRONIC, EUROCOM, MIDAS, KLARK TEKNIK, TURBOSOUND, BEHRINGER and BUGERA, the MUSIC Group owns and manages these brands.

We do hereby certify PT GRACIA AUVINDO with its registered addresses as Kanto Blk D/22, Mega Glodok Kemayoran 10610 Jakarta Indonesia, is our authorized distributor for TANNOY, LAB GRUPPEN, LAKE, MIDAS & KLARK TEKNIK for Indonesia.

Sincerely,



Karan Kathuria
Director, Touchpoint
MUSIC Group





CONFIRMATION LETTER
IAP/YTD19/1/040

This is to certify that:

PT. Synnex Metrodata Indonesia
APL Tower Lantai 42 Suite 1-8, Jl. Letjen S. Parman Kav. 28
Tj. Duren Selatan, Jakarta Barat 11470

Is officially appointed as **Distributor** of PT DKSH Indonesia – VERTIV.

The above appointment shall be valid for 1 January 2019-31 December 2019 in accordance with the term of the Solution Partner (Diamond) Agreement.

Please feel free to contact us for any further questions or clarifications and thank you for your kind attention and cooperation.

Yours Sincerely,
PT DKSH Indonesia



PT. DKSH Indonesia
www.dksh.com/indonesia

Benoit Fissot
Managing Director Technology



PT. DKSH Indonesia
AIA Central 39th floor
Jalan Jenderal Sudirman Kav 48A, Jakarta Selatan 12930
Phone +62 21 2988 8557. Fax +62 21 2988 7870. www.dksh.com/indonesia

Think Asia. Think DKSH.



AMENDMENT NO. 1 TO THE DISTRIBUTOR AGREEMENT

This Amendment No. 1 (the "Amendment") to the Distributor Agreement or other similar agreement for the distribution of Cisco Products and Services (the "Agreement") entered into by and between Cisco International Limited ("Cisco"), registered in England and Wales having a principal place of business at 9-11 New Square Park, Bedford Lakes, Feltham, England TW14 8HA, United Kingdom and PT. Synnex Metrodata Indonesia (the "Distributor"), having its principal place of business at APL Tower 42nd Floor Suite 1-8 Jl. Letjen S. Parman Kav. 28, Tanjung Duren Selatan, 11470, Jakarta Barat, Indonesia, is effective as of the date of last signature (the "Amendment Effective Date").

WHEREAS, as of 27 January 2016, Cisco and Distributor entered into the Agreement, as amended (if applicable);

WHEREAS, any future extension, renewal, or amendment to the Agreement may be in electronic format and accepted on-line by means of an electronic contract management system, (including these terms the "On-line Amendment") as described herein; and

WHEREAS, in order to implement an On-line Amendment, Cisco will deliver an e-mail to an authorized officer or representative of Distributor, which e-mail will contain a link to the On-line Amendment. By clicking on the link, Distributor will be presented with an On-line Amendment, which will set forth the terms of the extension, renewal or amendment to the Agreement and will contain a means for acceptance.

NOW THEREFORE, the parties agree to amend the Agreement as follows:

1. The Agreement may be extended, renewed or amended by electronic means by accepting terms and conditions on-line and the provisions of such extension, renewal or amendment shall for all purposes be legally enforceable and binding on the parties as if the Agreement were extended, renewed or amended in writing and signed by both parties. The On-line Amendment shall be deemed signed and thus the terms hereof agreed to, if Distributor clicks on the 'Renew' button therein and thereby accepts the On-line Amendment. All references to writing or written amendments in the Agreement shall be deemed to include any On-line Amendment, and all references to signature shall include on-line acceptance. Distributor waives any challenge to the validity or enforceability of any renewals, extensions or amendments to the Agreement or the terms of any of the foregoing on the grounds that the terms of any renewal, extension or amendment were presented on-line or electronically or acceptance of such renewal, extension or amendment was electronically transmitted or accepted.
2. The term of the Agreement shall be renewed for a period of two (2) years commencing on the following date: (i) if the Agreement has not expired (i.e. the Amendment Effective Date is *on or before* the expiry of the then-current term of the Agreement), then the end of the then-current term of the Agreement; or (ii) if the Agreement has expired (i.e. the Amendment Effective Date is *after* the expiry of the then-current term of the Agreement), then the Amendment Effective Date. The Agreement will not govern any orders received between the date of expiration of the Agreement and the Amendment Effective Date.
3. To the extent the following language is not present in the Agreement, it is hereby added to the section regarding Appointment of Regional Distributor:

"Due Diligence. Integrator must complete any due diligence or other questionnaire provided by

2
R

or candidate for political office outside the United States and are responsible for a decision regarding obtaining or retaining business for Cisco Products by such government.

- d. Distributor shall use its best efforts to regularly and continuously inform Cisco of any requirements of laws, statutes, ordinances, governmental authorities directly or indirectly affecting this Agreement, the sale, use, and distribution of Products, or Cisco's trade name, trademarks, or other commercial, industrial, or intellectual property interests, including, but not limited to, certification of the Products from the proper authorities in the Territory."
7. If the Agreement contains a definition of European Economic Area or EEA ("Initial Definition") which differs from the following definition, the Initial Definition is hereby deleted and replaced with the following definition:

"European Economic Area or EEA means the then-current member states of the European Union (EU) and the then-current member states of the European Free Trade Area (EFTA). For the avoidance of doubt, this definition includes Switzerland."
8. If the Agreement does not contain a definition of European Economic Area or EEA, then the following definition is hereby added:

"European Economic Area or EEA means the then-current member states of the European Union (EU) and the then-current member states of the European Free Trade Area (EFTA). For the avoidance of doubt, this definition includes Switzerland."
9. If the Agreement contains a "Direct Value Add Distributor ("DVAD") Program" also known as "Channels Booking Neutrality" ("CBN") exhibit, then such exhibit is hereby deleted and replaced with Appendix A ("Direct Value Add Distributor ("DVAD") Program" also known as "Channels Booking Neutrality" ("CBN")) attached to this Amendment.
10. If the Agreement does not contain a "Direct Value Add Distributor ("DVAD") Program" also known as "Channels Booking Neutrality" ("CBN") exhibit, then Appendix A ("Direct Value Add Distributor ("DVAD") Program" also known as "Channels Booking Neutrality" ("CBN")) attached to this Amendment is hereby incorporated into the Agreement and the DVAD terms and conditions are co-terminous with the Agreement.
11. Any support exhibits in the Agreement shall be deleted in their entirety and replaced with Appendix B, Distributor Support and Services Resale Exhibit, attached to this Amendment and hereby incorporated into the Agreement by this reference.
12. To the extent that there is conflict between the Agreement and this Amendment, the terms of this Amendment shall take precedence over the terms and conditions of the Agreement with regards to the subject matter described herein.

Cisco and must comply with such other due diligence or other compliance requirements requested by Cisco in writing."

4. To the extent the following language is not present in the Agreement, it is hereby added to the section regarding Term and Termination:

"In the event that, following termination or expiration of this Agreement, Distributor places Purchase Orders and Cisco accepts such Purchase Orders, then any such Purchase Orders shall be governed by the terms and conditions of this Agreement notwithstanding the earlier expiration or termination of this Agreement; provided, however, that acceptance by Cisco of any such Purchase Order will not be considered to be an extension of the term of the Agreement nor a renewal thereof."

5. To the extent the following language is not present in the Agreement, it is hereby added to the section regarding Term and Termination that permits Cisco to terminate immediately:

"Where Distributor fails to complete any due diligence questionnaire or other questionnaire provided by Cisco and/or fails to comply with such other due diligence or other compliance requirements requested by Cisco in writing and/or fails to meet Cisco's general due diligence requirements."

6. To the extent there is a clause or exhibit in the Agreement regarding Compliance with Laws, including Anti-Corruption Laws, such clause or exhibit is hereby deleted in its entirety and replaced with the following language:

"Compliance with Laws, including Anti-Corruption Laws

- a. Distributor shall obtain all licenses, permits, and approvals required by any government, including any recycling or take-back programs applicable to packaging or Products, and shall comply with all applicable laws, rules, policies, and procedures including requirements applicable to the use of Products under telecommunications and other laws and regulations, of any government or other competent authority where the Products are to be sold or used (collectively "Applicable Laws").
- b. Distributor will indemnify and hold harmless Cisco for any violation or alleged violation of any Applicable Laws.
- c. Distributor hereby represents and warrants that:
 - i. Distributor shall comply with all Applicable Laws;
 - ii. This Agreement and each of its terms are in full conformance and in compliance with such laws
 - iii. Distributor shall not act in any fashion or take any action or permit or authorize any action which will render Cisco liable for a violation of the U.S. Foreign Corrupt Practices Act (the "FCPA"), which prohibits the offering, giving or promising to offer or give, directly or indirectly, money or anything of value to any official of a government, political party or instrumentality thereof in order to assist it or Cisco in obtaining or retaining business; and
 - iv. Distributor will not violate or cause Cisco to violate the FCPA in connection with the sale or distribution of Cisco Products and/or services; and (ii) if Distributor is a non-governmental entity, it will notify Cisco in writing if any of its owners, partners, principals, and officers are or become during the term of this Agreement officials, officers, or representatives of any non-United States government or political party

13. Any terms not defined in this Amendment shall have the meaning stated in the Agreement. All other terms and conditions of the Agreement remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed. Each party warrants and represents that its respective signatories whose signatures appear below have been and are on the date of signature duly authorized to execute this Agreement.

SYNNEX
PT. Synnex Metrodata Indonesia
("Distributor")
PT. SYNNEX METRODATA INDONESIA

Authorized Signature

Agus Honggo Widodo

Print Name

President Director

Title

31 January 2018

Day/Month/Year

Cisco International Limited
("Cisco")

Authorized Signature

William Robert McCartney

Print Name FINANCE MANAGER.FINANCE

Title

08 February 2018

Day/Month/Year

APPROVED BY LEGAL



Cisco International Limited
9-11 New Square Park
Bedfont Lakes, Feltham
Middlesex, TW14 8HA
United Kingdom

SYNNEX
METRODATA
PT. SYNNEX METRODATA INDONESIA

R



Ref. No. : SURDUK-19/FAV/MSD/002
Perihal : **Surat Dukungan**

Kepada Yth,
Pokja Pemilihan 2 Biro Administrasi Pengadaan Barang/Jasa Setda Provinsi Jawa Tengah
Gedung D Setda Provinsi Jawa Tengah
Jl. Pahlawan 9 Semarang

Yang bertanda tangan di bawah ini :

Nama : Hans Fernandi Halim
Jabatan : **Direktur**
Perusahaan : **PT FERNANDS AUDIO VISUAL**
Alamat Perusahaan : PIK AVENUE MALL LT.6, Jl. Pantai Indah Barat
No.1 RT.001, RW.006, Kel. Kamal Muara, Kec.
Penjaringan, Jakarta Utara 14460, Indonesia

Sebagai Distributor di Indonesia untuk produk merk **B-TECH AV MOUNTS** memberikan dukungan kepada :

Nama Perusahaan : PT. Media Sarana Data
Alamat Perusahaan : Jl. Daradasih No. 11A, Patangpuluhan, Wirobrajan,
Yogyakarta 55251

Untuk pekerjaan pengadaan : **Pengadaan Peralatan Studio Visual Sarana dan Prasarana Situation Room**

Surat dukungan ini meliputi :

- Barang yang ditawarkan 100% baru/ bukan barang rekondisi, bukan dari pasar gelap/ blackmarket.
- Memberikan layanan purna jual.
- Sanggup memberikan garansi suku cadang selama 2 (dua) tahun.
- Sanggup memberikan surat jaminan pemeliharaan selama 2 (dua) tahun, selama masa pemeliharaan sanggup memperbaiki kerusakan dalam waktu 7 (tujuh) hari kerja.

Demikian surat dukungan ini dibuat untuk dipergunakan sebagaimana mestinya.

Jakarta, 8 Maret 2019
PT FERNANDS AUDIO VISUAL



Hans Fernandi Halim
Direktur

PT Fernands Audio Visual
PIK AVENUE MALL LT.6, Jl. Pantai Indah Barat No.1 RT.001, RW.006, Kel. Kamal Muara, Kec.
Penjaringan, Jakarta Utara 14460, Indonesia

CERTIFICATE OF COMPLIANCE

Certificate Number 20180820-E502044
Report Reference E499967-20180815
Issue Date 2018-AUGUST-20

Issued to: B-Tech International Design and Manufacturing Limited
Unit 26, 22/F Metro Centre II, 21 Lam Hing St.
Kowloon Bay, Kowloon, Hong Kong HONG KONG

**This is to certify that
representative samples of**

WALL AND CEILING MOUNTS AND ACCESSORIES
USL, CNL - PROFESSIONAL VIDEO WALL MOUNT,
Model BT8310
USL, CNL - ULTRA-SLIM POP-OUT VIDEO WALL
MOUNT, Model BT8312

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL 2442 - Safety of Household, Commercial and
Professional - Use Carts and Stands for WALL- AND
CEILING-MOUNTS AND ACCESSORIES
CSA C22.2 NO. 60065-03 - AUDIO, VIDEO, AND SIMILAR
ELECTRONIC APPARATUS—SAFETY REQUIREMENTS

Additional Information:

See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



B. Mahlenholz

Bruce Mahlenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/about/locations>





Intellectual
Property
Office

Concept House
Cardiff Road, Newport
NP10 8QQ

T +44 (0) 30 0300 2000
MC +44 (0) 30 0020 0015

Sukra Limited
Bennett House
Long March
Daventry
United Kingdom
NN11 4NR

21 April 2018

CERTIFICATE OF RENEWAL OF TRADE MARK

Trade Mark Number : UK00002492663
In Class(es) : 09 20
registered in the name of : Sukra Limited
has been renewed until : 15 July 2028
Your Reference : B-TECH AV MOUNTS

IMPORTANT

We have shown the first 100 characters of the owners name as recorded in the register of Trade Marks. If this is wrong, please fill in and send us a form TM16 if ownership has changed or a form TM21A for other changes.

If you have any queries on this renewal, they should be addressed to the Renewal Section on 01633 814433.





**ULTRA-SLIM
DESIGN**

BT8312

ULTRA-SLIM POP-OUT VIDEO WALL MOUNT

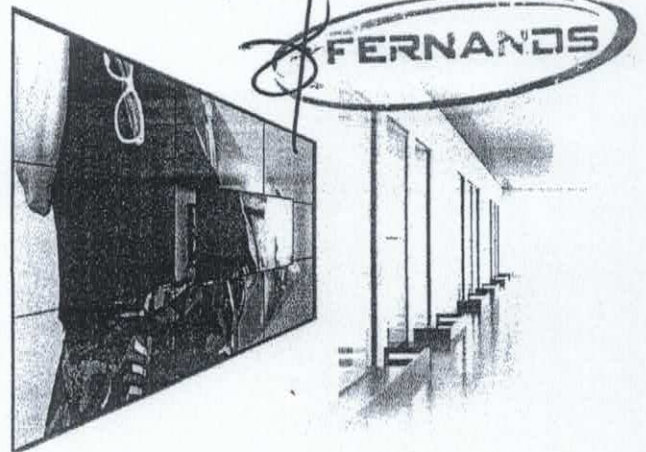
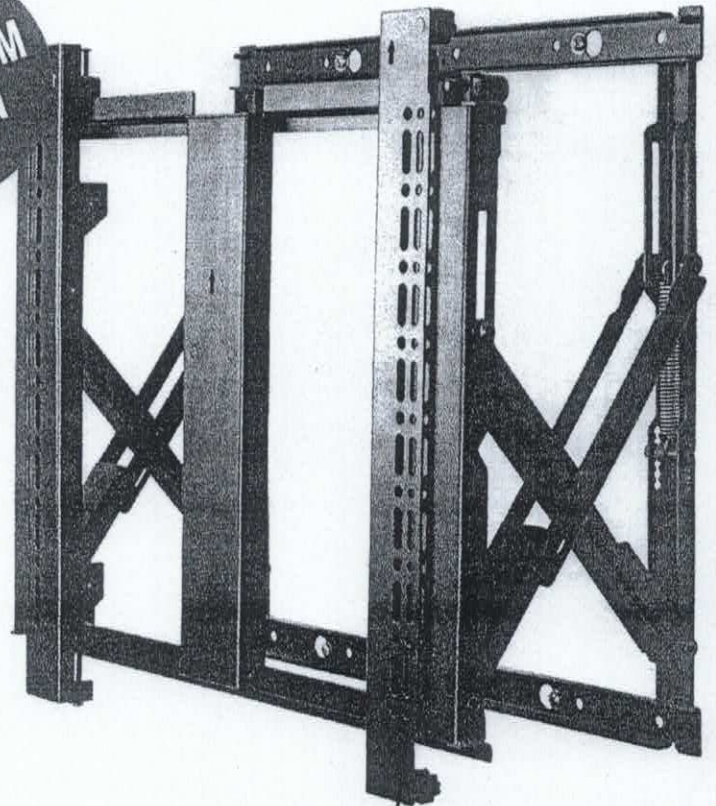
Designed to make video wall installations as quick and simple as possible, this modular video wall mount can be used to create unlimited video wall configurations in both landscape and portrait format. The BT8312 has an ultra-low profile for mounting into walls with a shallow recess or when space in front of the wall is minimal. The pop-out system enables quick and easy access to the rear of mounted screens for servicing and maintenance and $\pm 7.5\text{mm}$ micro-adjustment makes accurate screen alignment quick and easy.

SPECIFICATION

Recommended screen size	42" - 70" (46" - 70" in portrait)
Max load	50kg
VESA® compatibility (as standard)	200 x 100 to 400 x 400
VESA® compatibility (with included adaptors)	up to 600 x 400*
Flat to wall depth	63.1mm* ($\pm 7.5\text{mm}$ with micro-adjustment)
Popped out depth	235.1mm* ($\pm 7.5\text{mm}$ with micro-adjustment)
Colour	Black

FEATURES

- Ultra-slim design ideal for low profile installs on walls or in shallow recesses
- Modular mount allows video wall assembly in an unlimited number of configurations
- Suitable for landscape or portrait screen mounting
- Pop-out system provides quick and easy service access
- Tool less micro-adjustment of $\pm 7.5\text{mm}$ at each corner for seamless display alignment
- Screen height adjustment of $\pm 15\text{mm}$
- Suitable for both wall or pole mounting
- Keyhole mounting for quick and easy installation
- Mounting template spacers are available (separately) to speed up installation times
- Integrated locking mechanism prevents accidental pop-out of mount
- Safety screws help prevent unauthorised removal of screens
- Includes Interface Adaptor Arms as standard (pictured below) for use with screens with VESA 600 x 400 fixings
- All mounting hardware included



VESA
600
400

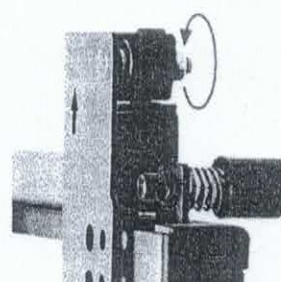
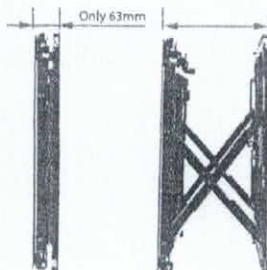
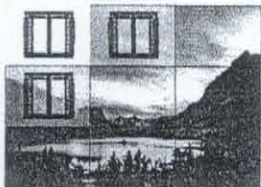
70"
177cm

50KG



PER SCREEN

*Please note using the included Interface Adaptor Arms to mount VESA 600 x 400 screens will increase the total depth of the product by 6mm, for a total depth of 69.1mm, or 241.1mm whilst popped out ($\pm 7.5\text{mm}$ micro-adjustment).



Modular mount allows video wall assembly in an unlimited number of configurations

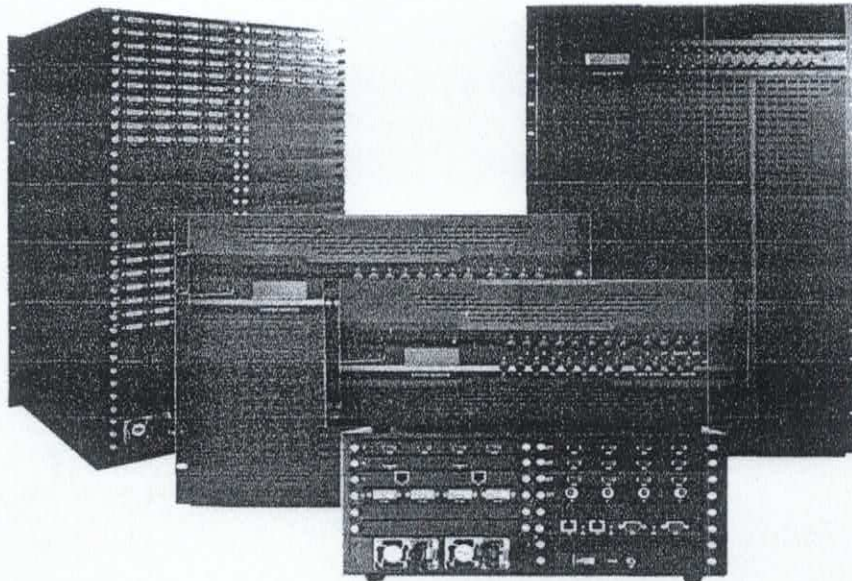
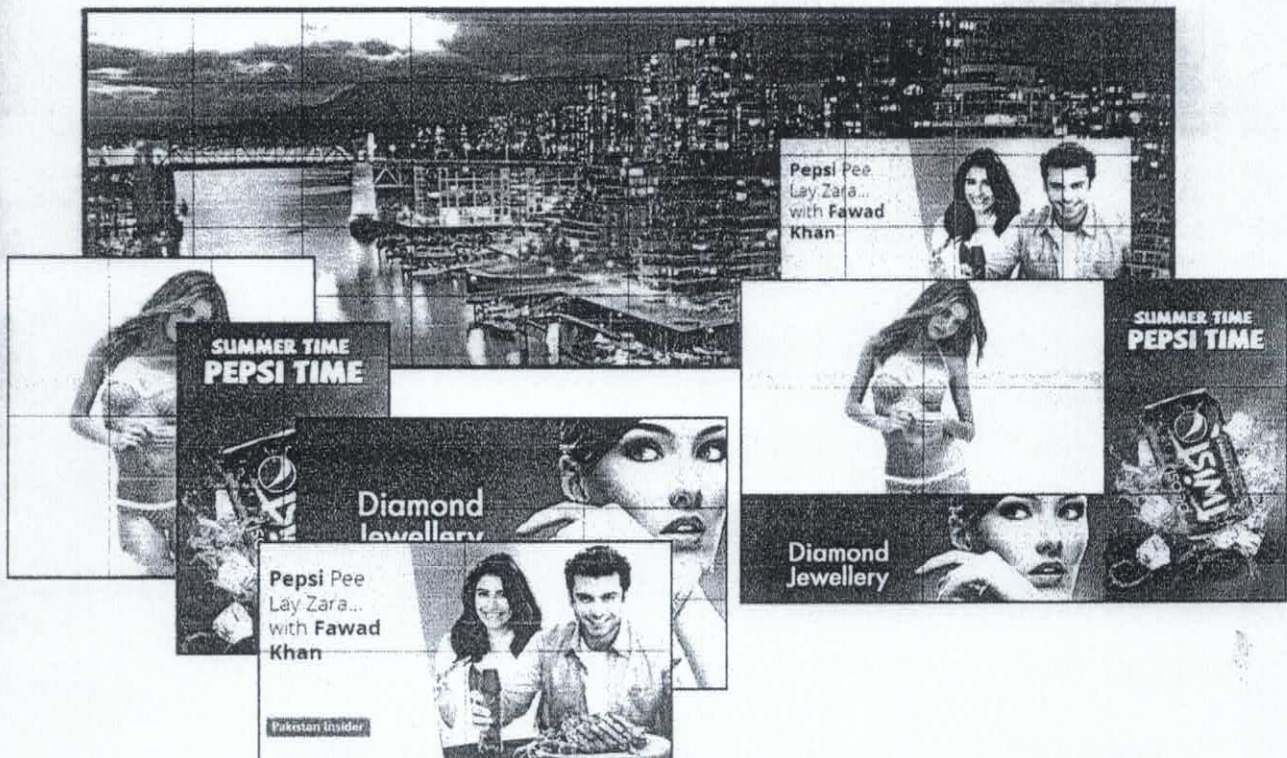
Pop-out system provides quick and easy service access

Tool less micro-adjustment of $\pm 7.5\text{mm}$ at each corner for seamless display alignment

Optional Interface Adaptor Arms for VESA 600 x 400 fixings included as standard

B-TECH PROFESSIONAL

For More Information Visit www.btechavmounts.com



BV Series

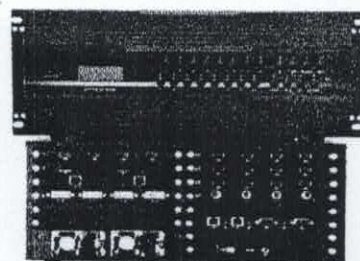
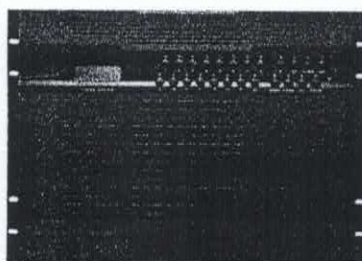
Video Wall Controller

Powerful Video and Image Processing Device



BV Series Video Wall Controller

BV Series video wall controller is new generation professional image processing product which is based on the development of multi-windows, ultra-high definition and visual display control technology. Compare to other video wall controller in the market, BV series has upgraded its system capacity and use 6.25G base exchange processing chip, so that there is a significant advantage on the processing speed and professional display control. Meanwhile, BV series controller supports multiple services, density of I/O interfaces and long term reliability. It is an all-in-one product which has 4K input and output processing, IP-Video Decoding, Monitoring control, Scene preset, Log management, User management and other advanced applications to meet a variety of professional system application requirements.



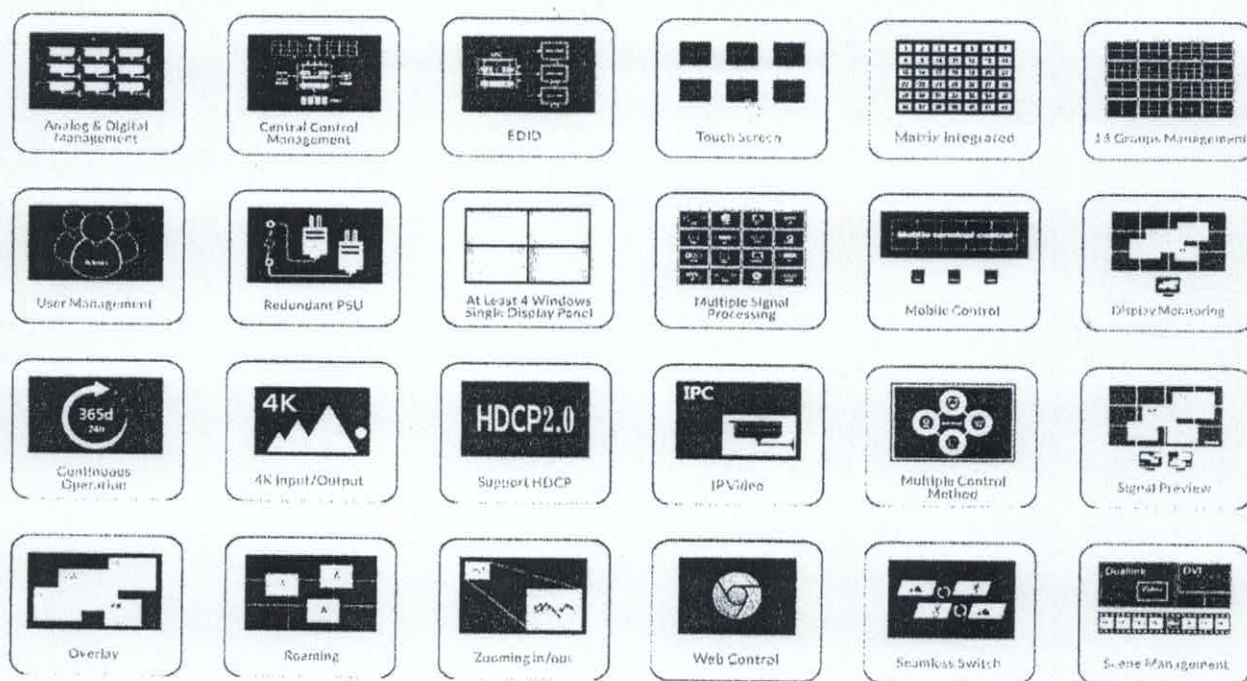
BV Series

Video Wall Controller

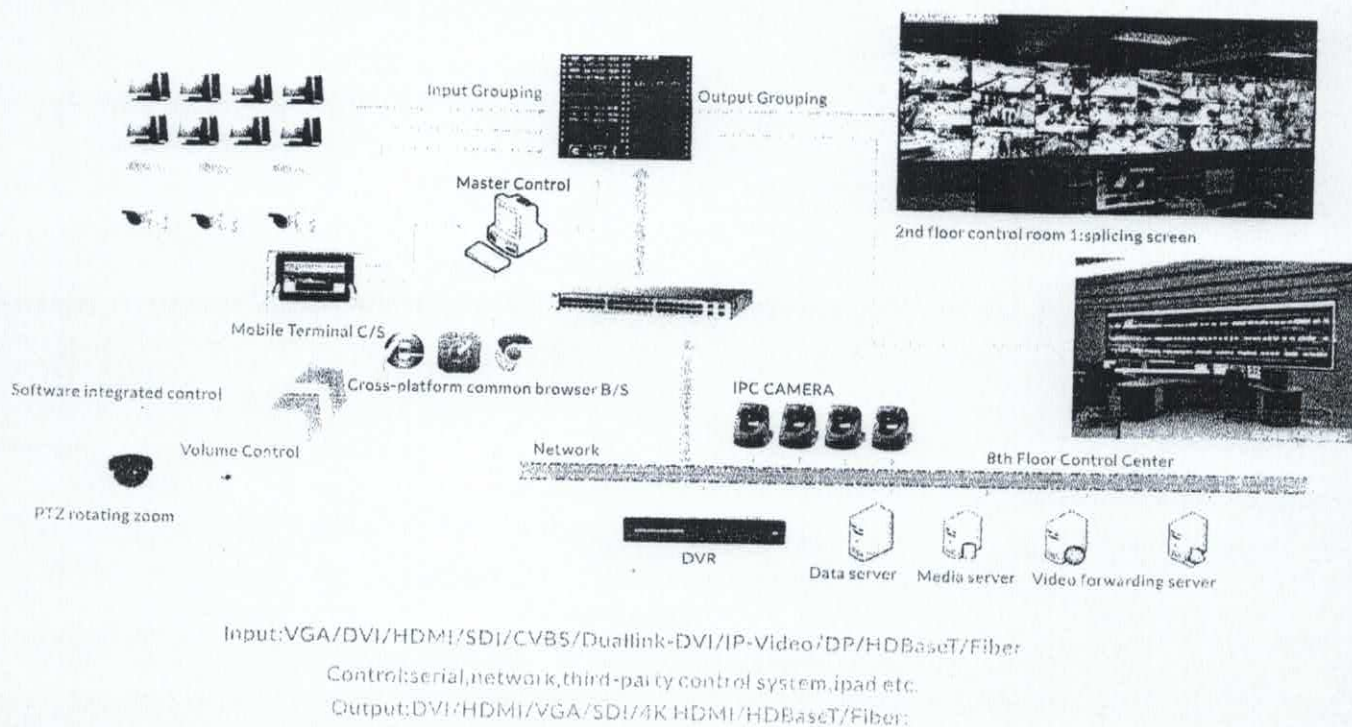
FEATURES

- Pure-hardware FPGA Array, modular design, 6.25G/s base exchange processing speed;
- Support hot-swappable for I/O modules, control modules, redundant power supply. Easy to upgrade and maintenance;
- Support VGA, DVI, HDMI, CVBS, DP, SDI, HDBaseT, IP-Video, Fiber input sources and VGA, DVI, HDMI, SDI, CVBS, HDBaseT, Fiber output;
- Support 4K DP/HDMI/Dual-link DVI input and 4K HDMI output;
- Support VGA/DVI/HDMI sources self-adaption on single input card;
- Support HDCP2.0 for HDMI input and output;
- Support opening at least 8 windows on each two screens;
- Support up to 16 video wall groups control on single controller and work with variety of display terminals such as LCD, LED, DLP, projector;
- Support scene management, up to setup and display 255 scenes;
- Integrated with hybrid matrix function, output windows switching, friendly to system integrator;
- Support input source previewing and monitoring(refresh rate 24-30Hz);
- Variety of control methods such as RS232, Network, Touch screen/Keypad and compatible with third party control system;
- Support multi-user control management, software can be set through the operation authority, according to the authority level to develop different operating functions, different levels, different operating privileges, and can be set at any output authority range;
- B/S and C/S dual mode visualization control platform, support roaming, overlay, zoom in/out, multi-window switching, picture-in-picture, signal clip and a variety of display modes such as split screen, full screen and combination screen;
- Mobile visual management applications, support iPad, Surface;
- Support EDID, customize the output resolution according to the physical resolution of the display system;
- Advanced image decoding technology, compatible with a number of manufacturers' IPC signal and seamless access with variety resolutions such as 1080P, 720P, etc.

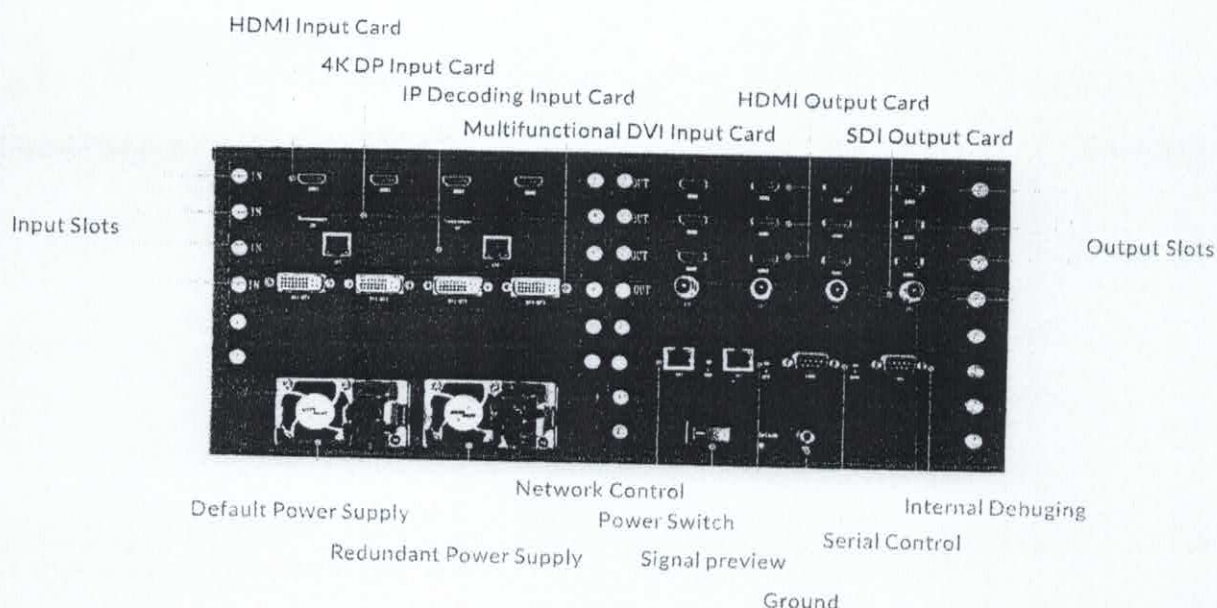
RELEVANT FUNCTION INDICATION



DIAGRAM



PRODUCT STRUCTURE



INPUT CARDS



Quad-Channel DVI Input Card



Quad-Channel VGA Input Card



Quad-Channel HDMI Input Card



Quad-Channel DP Input Card



Quad-Channel SDI Input Card



8-Channel CVBS Input Card



Dual-Channel 4K DP Input Card



Dual-Link DVI Input Card



Dual-Channel 4K HDMI Input Card



Quad-Channel HDBaseT Input Card



Quad-Channel Fiber Input Card



Dual-Channel IP Input Card

OUTPUT CARDS



Quad-Channel DVI Output Card



Quad-Channel VGA Output Card



Quad-Channel HDMI Output Card



Quad-Channel SDI Output Card



Quad-Channel CVBS Output Card



Quad-Channel HDBaseT Output Card



Quad-Channel Fiber Output Card



Dual-Channel 4K HDMI Output Card

CONTROL CARDS

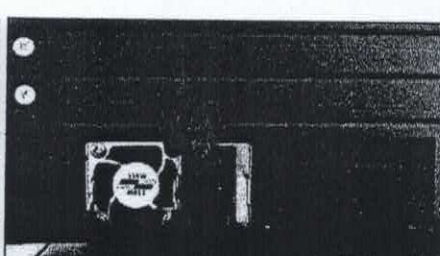
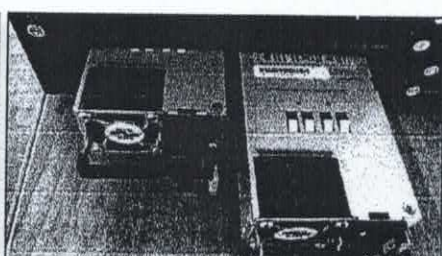
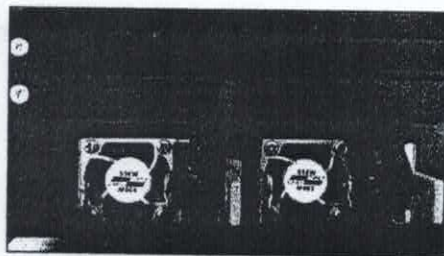


Control Card A



Control Card B
(With Signal Preview)

REDUNDANT PSU



SPECIFICATIONS

Device size	4U		8U		16U		16UA		16UB		28U		32U(Double)	
	Input	Output	Input	Output	Input	Output	Input	Output	Input	Output	Input	Output	Input	Output
Slots	4	4	9	8	20	20	29	15	15	29	40	40	80	80
Redundant PSU	1+1		1+1		2+2		2+2		2+2		4+4		8+8	

Product hardware information	System structure	Pure hardware FPGA architecture
	Start up	<15s
	Operating system	No CPU and operating system
Input/Output Signal	Board type	Pure hardware pluggable, hot-swappable structure
	Input type	VGA,DVI,HDMI,DP,CVBS,SDI,HDBaseT,IP-Video,Fiber
	Input channel	1080P up to 320 channel,4K up to 80 channel
Image processing	Output type	VGA,DVI,HDMI,CVBS,SDI,HDBaseT,Fiber
	Output channel	1080P up to 320 channel,4K up to 80 channel
	Display mode	Roaming, overlay, zoom in/out, multi-windowing, scene switch, PIP, full screen and combination screen
Control function	Input resolution	Single channel 4K; duallink DVI/HDMI/DP
	Scene/Signal switching time	Millisecond-level switching
	Number of signal copy	Up to 16
Stability	Max input/output resolution	3840*2160@30Hz
	Single-screen window	At least 8 windows on each two screens
	Hot-swappable	Support
Working environment	Power supply configuration	N+1 redundant power supply structure
	Signal preview	Support
	Control structure	Software /Hardware
Stability	Maximum scenes	255
	Control method	RS232/Network/Touch screen/Keypad and compatible with third party control system
	Management mode	B/S, C/S, Mobile
Working environment	Matrix control	Supports digital /analog matrix linkage control
	Safety	Hardware structure, no virus interference
	MTBF	50000h
Working environment	Continuity	365 days, 7x24 hours operation
	Operating temperature	-15~60℃
	Storage temperature	-30~75℃
Working environment	Operating humidity	10 to 90% without condensation
	Storage humidity	5~95% without condensation

iSEMC

Beijing Huahang Shengde Technology Co., Ltd.
Tel:+86 10 82749250 | Fax:+86 10 82749250
Email:info@isemc.com | Website:www.isemc.com



PT. Cipta Alpha Omega

No Surat : 02/SDK/CAO/III/2019
Perihal : Surat Dukungan

Kepada Yth,
Pokja Pemilihan 2 Biro Administrasi Pengadaan Barang/Jasa Setda Provinsi Jawa Tengah
Gedung D Setda Provinsi Jawa Tengah
Jl. Pahlawan 9 Semarang

Yang bertanda tangan di bawah ini :

Nama : Rachmad Nofendi
Jabatan : Direktur
Perusahaan : PT Cipta Alpha Omega
Alamat Perusahaan : Jl. Pantai Indah Barat PIK Avenue Mall Lt.6 No.1 RT.005 RW.006, Kamal Muara,
Penjaringan, Jakarta Utara, DKI Jakarta

Sebagai Distributor di Indonesia untuk produk merk ISEMC type ISEMC BV Series 8in 8out memberikan dukungan kepada :

Nama Perusahaan : PT. Media Sarana Data
Alamat Perusahaan : Jl. Daradasih No. 11A, Patangpuluhan, Wirobrajan, Yogyakarta 55251

Untuk pekerjaan pengadaan : **Pengadaan Peralatan Studio Visual Sarana dan Prasarana Situation Room**

Surat dukungan ini meliputi :

- Barang yang ditawarkan 100% baru/ bukan barang rekondisi, bukan dari pasar gelap/ blackmarket.
- Memberikan layanan purna jual.
- Sanggup memberikan garansi suku cadang selama 2 (dua) tahun.
- Sanggup memberikan surat jaminan pemeliharaan selama 2 (dua) tahun, selama masa pemeliharaan sanggup memperbaiki kerusakan dalam waktu 7 (tujuh) hari kerja.

Demikian surat dukungan ini dibuat untuk dipergunakan sebagaimana mestinya.

Jakarta , 11 Maret 2019
PT Cipta Alpha Omega


PT. CIPTA ALPHA OMEGA
Rachmad Nofendi
(Direktur)

PIK Avenue Lt. 6, Jl. Pantai Indah Kapuk Boulevard, RT.6/RW.2, Kamal Muara,
Penjaringan, Kota Jakarta Utara, Daerah Khusus Ibukota Jakarta 14470. Telp. 6221 6685110



Cisco Catalyst 9300 Series Switches

Built for Security, IoT, Mobility, and Cloud

Platform Details

Switch Models and Configurations

The Cisco Catalyst 9300 Series is made up of seven different switch models. Any of the models can be used together in a stack of up to eight units (Figure 1).

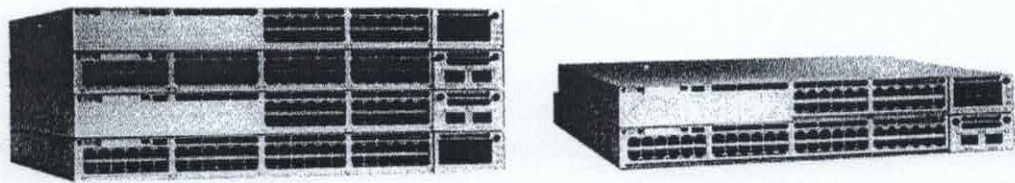


Figure 1.
Cisco Catalyst 9300 Series Switches

Table 1 lists port scale and power details for the Cisco Catalyst 9300 Series models.

Table 1. Cisco Catalyst 9300 Series Switch Configurations

Model	Total 10/100/1000 or Multigigabit copper ports	Default AC power supply	Available PoE power	Cisco StackWise-480	Cisco StackPower
C9300-24T	24	350W AC		Yes	Yes
C9300-48T	48	350W AC		Yes	Yes
C9300-24P	24 POE+	715W AC	445W	Yes	Yes
C9300-48P	48 POE+	715W AC	437W	Yes	Yes
C9300-24U	24 Cisco UPOE	1100W AC	830W	Yes	Yes
C9300-48U	48 Cisco UPOE	1100W AC	822W	Yes	Yes
C9300-24UX	24 Multigigabit Cisco UPOE (100M, 1G, 2.5G, 5G, or 10 Gbps)	1100W AC	560W	Yes	Yes
C9300-48UXM	36x 100 Mbps, 1G, 2.5G + 12x Multigigabit (100M, 1G, 2.5G, 5G, or 10 Gbps)	1100W AC	490W	Yes	Yes
C9300-48UN	48x 5 Gbps UPOE ports (100M, 1G, 2.5G, 5G)	1100W AC	645W	Yes	Yes

Network Modules

The Cisco Catalyst 9300 Series Switches support optional network modules for uplink ports (Figure 2). The default switch configuration does not include the network module. When you purchase the switch, you can choose from the network modules described in Table 2.