

CUBIC® | DTECH™

M3X

EXPEDITIONARY COMPUTE AND NETWORKING PLATFORM





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10

Gbps
Networking

20%

Smaller
in Size

16

Cores
Xeon Processing*

96_{Wh}

Battery Suitable for
Airline Carry-on



Deploy Fast

Compact size, automatic detection of modules and cable-less connections ensures mission readiness



Modular & Scalable

Industry-leading modularity and scalability for flexible processing, storage and networking at the edge



Cable-less Connection

Power and data via Raised Angle Connectors, removes the need for separate power and data cabling



Chassis-less Design

Modular Rail System removes the need for a chassis and increases flexibility in system configuration



Smart Battery Power

Power management & battery backup make the M3X ideal for power-constrained environments



Built Tough

Hardened aluminum case certified to meet MIL-STD, CE and RoHS for deployments around the world

M3X-APP

High performance Xeon D server with 128 GB RAM and a single 7 mm / 2.5" Solid-State Drive (SSD) ensures the M3X-APP is more than capable of running server applications, virtual machines and wireless LAN controllers at the tactical edge.



Module	M3X-APP
Dimensions	
Length (in / cm)	8.90 / 22.60
Width (in / cm)	5.75 / 14.60
Height (in / cm)	2.5 / 6.35
Weight (lbs / kgs)	5.05 / 2.29
Power Input	10-30 VDC Wide Range
Power Output	10-30 VDC Rear I/O
PoE	30W with full PoE+
Number of Ports	5 x GE Ports (2 x RJ45 PoE+ Front (1 is MGMT), 1x RJ45 PoE+ Rear, 1 Top RAC, 1 Bottom RAC) 2 x 10GE Ports (2 x RJ45 Front)
Ancillary	1 x RJ45 Console Port Rear 2 x USB 3.0 Ports 1 x VGA Port
Processor	Intel Xeon Processor, 12 or 16 Cores
RAM	128 GB
Storage	7 mm/2.5" SSD
Operating / Storage Temperature (°F/°C)	Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 70
Designed to Meet Certifications	MIL-STD-810 and MIL-STD-461

M3X-BPS

Smart Battery Power Supply (BPS) supplies over 96 watt-hours of power to a vertical equipment stack. Multiple M3X-BPS modules can be placed anywhere in a stack and provide additional reserve battery power to support mission requirements.



Module	M3X-BPS
Dimensions	
Length (in / cm)	8.90 / 22.60
Width (in / cm)	5.75 / 14.60
Height (in / cm)	1.25 / 3.18
Weight (lbs / kgs)	3.35 / 1.51
Power Input	10-30 VDC Wide Range
Power Output	8A Through RAC
PoE	N/A
Number of Ports	N/A
Ancillary	1 x USB 3.0 (power only)
Processor	N/A
RAM	N/A
Storage	N/A
Operating / Storage Temperature (°F/°C)	Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 70
Designed to Meet Certifications	MIL-STD-810 and MIL-STD-461

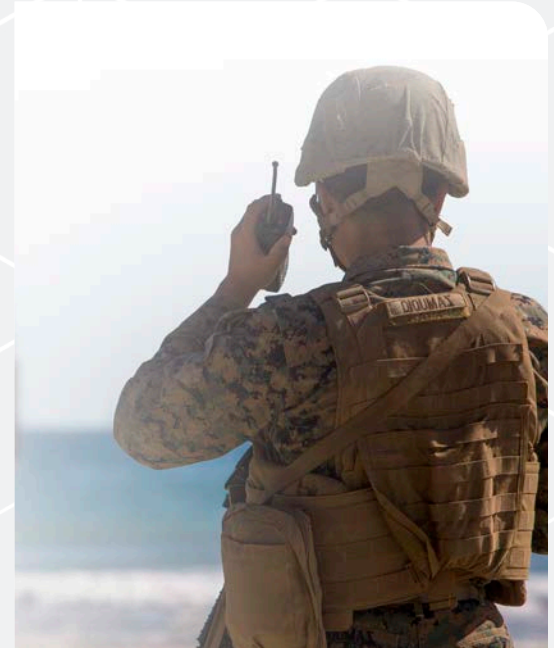


M3X-RTR2

Based on the trusted Cisco ESR-6300, the M3X-RTR2 module provides a full Gigabit Ethernet (GE) router featuring 2 x GE WAN PoE Ethernet ports and 4 x PoE GE layer 2 switch ports. The module supports the Cisco Command Line Interface and has up to 32 GB of removal storage.



Module	M3X-RTR2
Dimensions	
Length (in / cm)	8.90 / 22.60
Width (in / cm)	5.75 / 14.60
Height (in / cm)	1.25 / 3.18
Weight (lbs / kgs)	3.00 / 1.36
Power Input	10-30 VDC Wide Range
Power Output	10-30 VDC Rear I/O
PoE	Up to 90W with full PoE+*
Number of Ports	2 x GE WAN Ports (1 x RJ45 PoE+ Front, 1 x RJ45 PoE+ Rear / RAC) 4 x GE LAN Ports (3 x RJ45 PoE+ Front, 1 x RJ45 PoE+ Rear / RAC)
Ancillary	1 x RJ45 Console Port 1 x USB via Fischer (Minimax)
Processor	Cisco ESR6300
RAM	4 GB DDR4 Memory
Storage	4 GB eMMC Flash
Operating / Storage Temperature (°F/°C)	Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 70
Designed to Meet Certifications	MIL-STD-810 and MIL-STD-461



M3X-RoIP

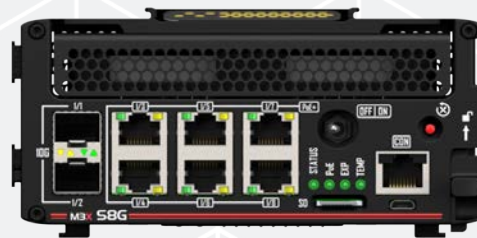
Based on the popular Vocality RoIP, the M3X-RoIP connects Land Mobile Radios (LMR) to IP networks. A wide range of radio types can be connected to the M3X-RoIP allowing for cross-banding of different radio brands, frequencies, and technologies into a single unified point-to-point radio network for connection to common radio dispatch solutions.



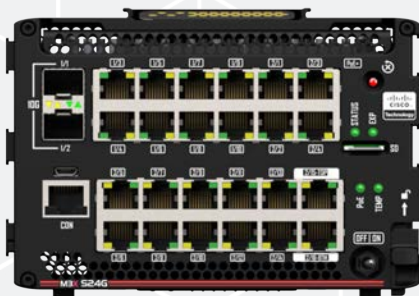
Module	M3X-RoIP
Dimensions	
Length (in / cm)	8.90 / 22.60
Width (in / cm)	5.75 / 14.60
Height (in / cm)	1.25 / 3.18
Weight (lbs / kgs)	2.8 / 1.3
Power Input	10-30 VDC Wide Range
Power Output	10-30 VDC Rear I/O
Number of Ports	4 x 8-way RJ45 Analog Radio Ports 2 x USB 2.0 Type A (RoIP connect, LTE and Wi-Fi devices) 2 x RJ45 ethernet shared with RAC (raised angle connectors) when stacked
Operating / Storage Temperature (°F/°C)	Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 85
Designed to Meet Certifications	MIL-STD-461, MIL-STD-810

M3X-S8G

The M3X-S8G switch provides 8 x 1 GE POE ports and 2 x 10 GE SFP+ ports utilizing the Cisco ESS3300 embedded switch.



Module	M3X-S8G
Dimensions	
Length (in / cm)	8.90 / 22.60
Width (in / cm)	5.75 / 14.60
Height (in / cm)	2.5 / 6.35
Weight (lbs / kgs)	4.51 / 2.05
Power Input	10-30 VDC Wide Range
Power Output	10-30 VDC Rear I/O
PoE	120W with full PoE+
Number of Ports	8 x GE Ports (6 x RJ45 PoE+ Front 2 x RJ45 PoE+ Rear / RAC) 2 x 10 GE Ports (2x SFP Front)
Ancillary	1 x RJ45 Console Port 1 x Micro USB Console Port 1 x MicroSD Card Slot
Processor	Cisco ESS3300
RAM	4 GB DDR4 Memory
Storage	Removable MicroSD Card 4 GB eMMC Flash
Operating / Storage Temperature (°F/°C)	Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 70
Designed to Meet Certifications	MIL-STD-810 and MIL-STD-461



M3X-S24G

Powered by an embedded Cisco ESS3300 switch, the M3X-S24G provides a 24 x GE port switch plus 2 x 10 GE SFP+ ports.

Module	M3X-S24G
Dimensions	
Length (in / cm)	8.90 / 22.60
Width (in / cm)	5.75 / 14.60
Height (in / cm)	4.05 / 10.30
Weight (lbs / kgs)	5.95 / 2.70
Power Input	10-30 VDC Wide Range
Power Output	10-30 VDC Rear I/O
PoE	120W with full PoE+
Number of Ports	24 x GE Ports (24 x RJ45 PoE+ Front / 2 x shared with RAC), 2 x 10 GE Ports (2 x SFP Front)
Ancillary	1 x RJ45 Console Port 1 x Micro USB Console Port 1 x MicroSD Card Slot
Processor	Cisco ESS3300
RAM	4 GB DDR4 Memory
Storage	Removable MicroSD Card 4 GB eMMC Flash
Operating / Storage Temperature (°F/°C)	Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 70
Designed to Meet Certifications	MIL-STD-810 and MIL-STD-461



M3X-MT Mounting Plates

The M3X-MT Mounting Plates enable third-party devices to be attached to the top of an M3X system stack. Several models are available, each designed to support specific third-party devices, including cellular routers, Radio over IP (RoIP) gateways, and country-specific encryption devices.

Product Name	Description
M3X-MT1-BA	Universal Mounting Plate, with hole patterns for third-party module connections, includes M3X mounting slides and lock mechanism.
M3X-MT2-BA	M3X Mounting Plate for Peplink Max BR. Includes M3X mounting slides, power cable and lock mechanism.
M3X-MT3-BA	M3X Mounting Plate for KG-175D. Includes M3X mounting slides and lock mechanism.
M3X-MT4-BA	M3X Mounting Plate for Vocality RoIP. Includes M3X mounting slides and lock mechanism.
M3X-MT5-BA	M3X Mounting Plate for KG-250X. Includes M3X mounting slides and lock mechanism.
M3X-MT6-BA	M3X Mounting Plate for KG-250XS. Includes M3X mounting slides and lock mechanism.
M3X-MT7-BA	M3X Mounting Plate & 24-inch Power Cable for Cradlepoint IBR900. Includes M3X mounting slides and lock mechanism.



M3X-MT4 Vocality RoIP Mount



Passthrough Battery Charger and Cable



Desktop Power Supply

POWER ACCESSORIES

A wide range of power accessories are available to connect directly to the modules or to an M3X system stack, these include desktop power supplies and military battery-compatible power solutions.

Product Name	Description
M3X-DPS	M3X Desktop Power Supply Kit (24 VDC out) - 160 W, 6.67 A
M3X-CHRGR-12N	Passthrough battery charger and cable, 12V, for inline charging of BB-2590 lithium-ion rechargeable batteries and connection to an M3X module. 36 inches
CA-M3X-12VBATT-36	12V battery cable with strap, for connecting one BB-type battery to an M3X module, 36 inches
CA-M3X-12VBATT-2-36	12V battery cable with strap, for connecting up to two BB-type batteries to an M3X module, 36 inches
CA-M3X-12VBATT-4-36	12V battery cable with strap, for connecting up to Four BB-type batteries to an M3X module, 36 inches
CA-M3X-FSY-UNIV-8	“Y” power cable, allows DC in and DC out connections to a single M3X module. Eight inches





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