



Expeditionary Networking and Compute Platform

About Cubic Mission & Performance Solutions

Cubic is a global provider of integrated systems and services that increase situational awareness and understanding for customers worldwide.

- We solve complex problems with innovative technology, systems and solutions.
- We design, integrate and operate systems, products and services that increase situational awareness for our customers.
 - We make it our mission to increase efficiencies, reduce costs and improve the user experience.
 - We accelerate the implementation of next-generation solutions.

Today, some of the world's most critical communications rely on Cubic Mission Solutions. Our technology helps government agencies and military organizations benefit from the emerging internet of battlefield things.

Any Mission. Any Time. Anywhere.



Stack vertically

Connect horizontally

Power and data via patented Raised Angle Connector (RAC)



Interlocking Modular Rail System Shock & Vibration Tolerant Design



Guided by continuous customer collaboration, the M3X delivers powerful compute, high-speed networking, and ample storage to users operating in the harshest environments. Ideal for users that need to deploy fast and connect faster; the M3X offers users several interlocking modules providing Cisco networking, Intel Xeon processing, file storage and smart battery backup with power management.



Smart Battery & Power Low Cost of Ownership

The unique chassis-less design and Modular Rail System reduce system Size Weight and Power while delivering a highly scalable and easy to use solution. At the same time, the patented Raised Angle Connector provides power and data to each module without the need for cables or a heavy backplane chassis. A standard two year warranty lowers the total cost of ownership and provides peace of mind.





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

| Module | МЗХ-АРР | |
|--|--|--|
| Dimensions | | |
| Length (in / cm) | 8.90 / 22.60 | |
| Width (in / cm) | 5.75 / 14.60 | |
| Height (in / cm) | 2.70 / 6.86 | |
| Weight (lbs / kgs) | 5.05 / 2.29 | |
| Power Consumption | 64W Nominal, 84W Maximum | |
| Power Input | 10-30VDC Wide Range | |
| Power Output | 10-30VDC Rear I/O | |
| PoE | Up to 30W with full PoE+* | |
| Number of Ports | 5 x GE Ports (2 Front PoE+, 1 Rear PoE+, 1 Top RAC, 1 Bottom RAC) 2 x 10GE Ports | |
| Ancillary | 1 x RJ45 Serial Console Port 2 x USB 3.0 Ports | |
| Processor | Intel Xeon Processor, 12 Cores | |
| RAM | 128GB | |
| Storage | 7 mm/2.5" SSD | |
| Operating / Storage Temperature (°F / °C) | Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 85 | |
| Certifications | IP67, MIL-STD-810 and MIL-STD-461 | |

*Subject to Power Source





M3X-BPS



Smart Battery Power Supply (BPS) supplying over 96 watt-hours of power to a vertical stack of equipment. Multiple M3X-BPS modules can be placed anywhere in a stack providing 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) | 1.55 / 3.94 | |
| Weight (lbs / kgs) | 3.35 / 1.51 | |
| Power Consumption | 1.4W min / 20W nom / 22.83W max (while charging) | |
| Power Input | 10-30VDC Wide Range | |
| Power Output | 8A Through RAC | |
| Ancillary | 1 x USB 3.0 (power only) | |
| Operating / Storage Temperature (°F / °C) | Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 85 | |
| Certifications | IP67, MIL-STD-810 and MIL-STD-461 | |

M3X-RTR



Powered by the widely used Cisco ESR-5915, the M3X-RTR is a full Fast Ethernet router featuring 2 x FE layer 3 routed ports and 3 x FE layer 2 switch ports.

| Module | M3X-RTR |
|--|--|
| Dimensions | |
| Length (in / cm) | 8.90 / 22.60 |
| Width (in / cm) | 5.75 / 14.60 |
| Height (in / cm) | 1.55 / 3.94 |
| Weight (lbs / kgs) | 2.95 / 1.34 |
| Power Consumption | 6.04W Min. / 6.64W Nom. / 7.17W Max |
| Power Input | 10-30VDC Wide Range |
| Power Output | 10-30VDC Rear I/O |
| PoE | Up to 75W with full PoE+* |
| Number of Ports | 5 x FE Ports (3 x RJ45 Front, 2 x Rear/RAC) |
| Ancillary | 1 x RJ45 Console Port |
| Processor | Cisco ESR-5915 |
| RAM | 512MB |
| Storage | 256MB Internal Flash |
| Operating / Storage Temperature (°F / °C) | Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 85 |
| Certifications | IP67, MIL-STD-810 and MIL-STD-461 |

*60W with M3X-DPS2 and 75W with M3X-DPS





M3X-RTR2



Based on the trusted Cisco ESR-6300, the M3X-RTR2 modules are full Gigabit Ethernet routers featuring 2 x GE PoE or 2 x SFP layer 3 routed WAN ports and 4 x PoE GE layer 2 switch ports. Both modules support Cisco Command Line Interface and up to 32GB of removal storage.

| Version | M3X-RTR2 | M3X-RTR2-SFP |
|--|---|---|
| Dimensions | | |
| Length (in / cm) | 8.90 / 22.60 | 8.90 / 22.60 |
| Width (in / cm) | 5.75 / 14.60 | 5.75 / 14.60 |
| Height (in / cm) | 1.55 / 3.94 | 2.70 / 6.86 |
| Weight (lbs / kg) | 3.00 / 1.36 | 4.70 / 2.13 |
| Power Consumption | 22W Maximum | |
| Power Input | 10-30 VDC Wide Range | |
| Power Output | 10-30 VDC Rear I/O | |
| PoE | Up to 75W with full PoE+* | |
| Number of Ports | 2 x GE PoE+ WAN ports 4 x GE PoE+ LAN ports | 2 x GE PoE+ / SFP WAN ports 4 x GE PoE+ LAN ports |
| Ancillary | 1 x Console Port (RJ45) 1 x USB via Fischer | 1 x Console Port (RJ45 or Mini-USB) 1 x USB via Fischer |
| Processor | Cisco ESR-6300 | |
| RAM | 4 GB DDR4 Memory | |
| Storage | 4 GB usable (pSLC mode) eMMC flash 32 GB removable rugged flash (optional) | |
| Operating / Storage Temperature (°F / °C) | Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 85 | |
| Certifications | CE, IP67, MIL-STD-810 and MIL-STD-461 | CE, MIL-STD-810 and MIL-STD-461 |

*60W with M3X-DPS2 and 75W with M3X-DPS

M3X-S8G

The M3X-S8G switch provides 8 x 1GE POE ports and 2 x 10GE SFP+ ports utilizing the Cisco ESS-3300 embedded switch.

| Module | M3X-S8G |
|--|--|
| Dimensions | |
| Length (in / cm) | 8.90 / 22.60 |
| Width (in / cm) | 5.75 / 14.60 |
| Height (in / cm)) | 2.70 / 6.86 |
| Weight (lbs / kgs) | 4.51 / 2.05 |
| Power Consumption | 13.9W min / 15.2W nom / 23W max |
| Power Input | 10-30VDC Wide Range |
| Power Output | 10-30VDC Rear I/O |
| PoE | Up to 100W with full PoE+ (8 ports)* |
| Number of Ports | 8 x GE Ports 2 x SFP+ |
| Ancillary | 1 x RJ45 Console Port 1 x Micro USB Console Port 1 x MicroSD Card Slot |
| Processor | Cisco ESS-3300 |
| RAM | 4GB |
| Storage | Removable MicroSD Card 4GB eMMC Flash |
| Operating / Storage Temperature (°F / °C) | Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 85 |
| Certifications | MIL-STD-810 and MIL-STD-461 |
| | *60W with MOX DDC0 and 100W with MOX DDC |



*60W with M3X-DPS2 and 100W with M3X-DPS



M3X-S24G

Powered by an embedded Cisco ESS-3300 switch, the M3X-S24G provides a 24 x GE port switch plus 2 x 10GE 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 Consumption | 25W min / 29W nom / 36W max | |
| Power Input | 10-30VDC Wide Range | |
| Power Output | 10-30VDC Rear I/O | |
| PoE | Up to 100W with Full PoE+ Capability* | |
| Number of Ports | 24 x GE Ports 2 x 10GE | |
| Ancillary | 1 x RJ45 Console Port 1 x Micro USB Console Port 1 x MicroSD Card Slot | |
| Processor | Cisco ESS-3300 | |
| RAM | 4GB | |
| Storage | Removable MicroSD Card 4GB eMMC Flash | |
| Operating / Storage Temperature (°F / °C) | Operating: 32 to 140 / 0 to 60 Storage: -4 to 185 / -20 to 85 | |
| Certifications | MIL-STD-810 and MIL-STD-461 | |

*60W with M3X-DPS2 and 100W with M3X-DPS

ECS 1/3 Fusion Rack Case

Carbon fiber 1/3 rack case for rugged protection during transportation, operation, and storage of your M3X solution. The internal rack can be easily removed for placement horizontally in a standard 19" rack. A retractable handle and integrated wheels make the enclosure ideal for airline carry-on.

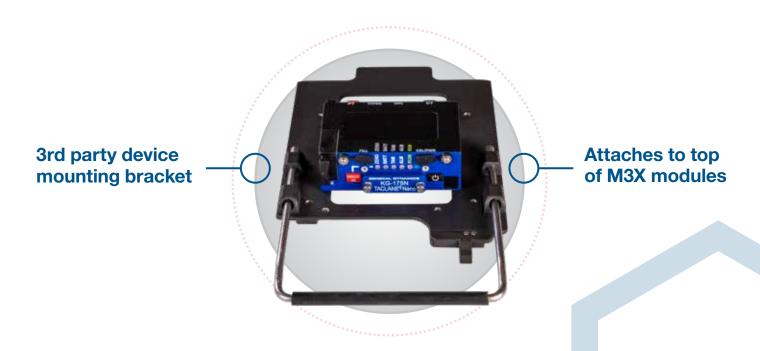
| Module | Fusion Rack Case |
|--------------------|------------------|
| Dimensions | |
| Height (in / cm) | 19.12 / 48.56 |
| Width (in / cm) | 8.83 / 22.42 |
| Length (in / cm) | 14.00 / 35.56 |
| Weight (lbs / kgs) | 10.21 / 4.63 |





M3X-MT1

The M3X-MT1 is an easy to use mounting bracket that enables third-party devices such as country-specific cryptos to be quickly and easily attached to the top of an M3X system stack.



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