



Features and Benefits

- Support for up to 1 GigE & 10G SFP+
- Virtual network compatibility
- Console port with Command Line Interface
- Zeroize button
- Compatible with all M3-SE modules
- Stackable and top mounting versions available

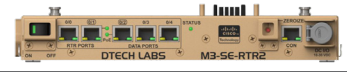
M3-SE Routers

The M3-SE modular router family delivers trusted router and switching functionality at speeds up to 10Gb/s with support for voice and high levels of encryption as standard. Designed in partnership with established leaders in switching and routing technologies, including Cisco, Juniper, and Peplink, the M3-SE router family offers a low SWaP connectivity solution suitable for a wide range of missions.

Several models are available with features including PoE, Wi-Fi, SFP ports, and Zeroize buttons. For users requiring software-defined networking from Cisco and Juniper, firewalls, wireless LAN controllers, and hypervisor software packages, the ME-SE4 module features a powerful Intel i7 processor with 32GB of RAM.

Benefiting from the popular M3-SE modular design, the M3-SE router family shares the same form factor and pass-through power connectors, allowing users to upgrade their current M3-SE router and network deployments with minimal changes to system design. This modular approach delivers great flexibility, as users can easily add networking capabilities based on mission requirements without the need to replace existing networking or compute hardware.

Specifications



Module	M3-SE-RTR3	M3-SE-RTR2A	M3-SE-RTR2
Processor Type			
Processor	Cisco 6300	Cisco ESR-5915	Cisco ESR-5915
Interfaces			
PoE	100W	50W	50W
Number of Ports	2 x GE / SFP Layer 3 WAN 4 x GE Layer 2 LAN PoE+ on all RJ45 ports	2 x FE Layer 3 x Ports (1 x PoE) 3 x FE Layer 2 x Switch Ports (1 x PoE)	2 x FE Layer 3 x Ports (1 x PoE) 3 x FE Layer 2 x Switch Ports (1 x PoE)
RAM	4GB DDR4	NA	NA
Ancillary	1 x DC IN 1 x DC OUT 1 x Console RJ45 Port 1 x Console USB Port 1 x Zeroize Button 1 x Fischer USB 3.0 Port	1 x DC I/O 1 x DC OUT 1 x Console Port 1 x Zeroize Button	1 x DC I/O 1 x Console Port 1 x Zeroize Button
Licensing Information			
Available Licenses	Cisco Network Essentials & Network Advantage Throughputs 50 Mbps, 250 Mbps or 2 Gbps	NA	NA
Power Specifications			
Power Consumption	10.08 minimum / 15.9 W maximum without PoE	10.4 W minimum / 12.8 W maximum without PoE	10.4 W minimum / 12.8 W maximum without PoE
Power Input	10-30 VDC	10-30 VDC	10-30 VDC
Power Output	10-30 VDC	10-30 VDC	10-30 VDC (via DC I/O port)
Physical Specifications			
Depth (in / cm)	5.06 / 12.85	5.06 / 12.85	5.06 / 12.85
Width (in / cm)	10.25 / 26.04	10.25 / 26.04	10.25 / 26.04
Height (in / cm)	1.82 / 4.61	1.72 / 4.36	1.82 / 4.61
Weight (lbs / kgs)	2.2 / 0.98	2.1 / 0.95	2.00 / 0.91
Storage (°F/°C)	-4 to 158 / -20 to 70	-4 to 158 / -20 to 70	-4 to 158 / -20 to 70
Operating Temperature (°F/°C)	32 to 140 / 0 to 60	32 to 140 / 0 to 60	32 to 140 / 0 to 60
Certifications			
Designed to Meet Certifications	MIL-STD-810G, MIL-STD-461F, CE, and RoHS Compliant	MIL-STD-810G, TAA Compliant	MIL-STD-810G, TAA Compliant

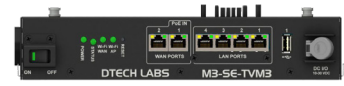
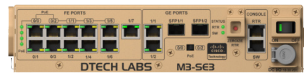
Configuration Example



Notes:

Software Defined Networking such as Cisco ESR-5921, CSR-100 and Juniper SRX can also be run on our M3-SVR and M3-VSVR modules.

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Module	M3-SE4	M3-SE3	M3-SE-TVM3
Processor Type			
Processor	Cisco ESS-3300, 6th Gen Intel Core i7-7600U, 32GB DDR4*	Cisco ESR-5915 Cisco ESS-2020	Pepwave MAX 700
Interfaces			
PoE	100W	50W	Device can be powered via PoE
Number of Ports	4 x GE Ports (PoE) 7 x GE Switch Ports (PoE) 2 x SFP+ Switch 2 x SFP+ Compute	11 x FE Ports (2 x Router, 9 x Switch, 4 x PoE+) internal port 2 x GE Switch Ports 2 x SFP Switch Ports (Shared with GE Ports)	2 x GE WAN Ports 4 x GE LAN Ports
Side CFast Port (VMware ESXi boot)	Yes	No	No
RAM	32GB DDR4	NA	NA
Ancillary	Console ports - RJ45 (1 x Compute, 1 x Switch) 1 x Micro USB (1 x Switch) 1 x Display Port Video Output 1 x Zeroize Button 2 x USB 3.0	2 x Console Ports (1 x Router, 1 x Switch) 1 x Zeroize Button (Erases User-selected Information)	1 x DC I/O Port 4 x SMA antenna Ports - Back 4 x USB Ports (1 x Front, 3 x Back) NOTE: Used for 3G/4G Modems ONLY
Power Specifications			
Power Consumption	25 W minimum / 40 W maximum without PoE	16.8 W minimum / 19.6 W maximum without PoE	10.2 W minimum / 11.9 W maximum
Power Input	10–30 VDC	10–30 VDC	10-30 VDC
Power Output	10–30 VDC	10–30 VDC	10-30 VDC (via DC I/O port)
Physical Specifications			
Depth (in / cm)	5.06 / 12.85	5.06 / 12.85	5.25 / 133.35
Width (in / cm)	10.25 / 26.04	10.25 / 26.04	10.25 / 26.04
Height (in / cm)	2.4 / 6.96	2.38 / 6.04	2.38 / 6.33
Weight (lbs / kgs)	3.6 / 1.63	3.0 / 1.36	2.3 / 1.04
Storage (°F/°C)	-4 to 158 / -20 to 70	-4 to 158 / -20 to 70	-4 to 158 / -20 to 70
Operating Temperature (°F/°C)	32 to 140 / 0 to 60	32 to 140 / 0 to 60	32 to 140 / 0 to 60
Certifications			
Designed to Meet Certifications	CE, MIL-STD-810G, MIL-STD-461F, DoDIN APL*, and RoHS Compliant	MIL-STD-810G	MIL-STD-810G

*DODIN testing condition of fielding (CoF) specifies usage of up to 100mbps for use in U.S. DOD networks when using the Cisco ESR-5921 virtual router with a 500Mbps license throughput.