

ROME® - Robotic Optical Management Engine



ROME 250



ROME 500



ROME 250



ROME 500

Single Mode Fiber Platforms

Multi-Mode OM4 Fiber Platforms

Overview

ROME® is a robotic optical switch that offers dynamic fiber cross connect capability at layer 1. ROME® enables physical fiber connections to be made automatically, remotely, quickly, and without on-site manual intervention. With ROME®, data center operators benefit from reduced CAPEX and OPEX as well as improved reliability and security, while future-proofing their critical infrastructure.

The ROME® product line is the first of its kind to deliver the attributes and reliability of a manual connectivity product while offering the benefits of remote control and automation.

ROME® delivers superior optical performance and low insertion loss. ROME® is completely transparent to transport protocol, wavelength and signal rate.

- 256 Fiber Connections (ROME 250)
512 Fiber Connections (ROME 500)
Single-Mode or Multi-Mode
- Supports 10G, 100G Transport,
Fibre Channel (8G, 16G, and 32G), etc.

ROME® Automates Physical Fiber Connections in the Data Center

ROME® can be integrated with Software-Defined Networking (SDN) or network management software and is ideal for data center operators, telcos, enterprises with IT infrastructure, and large technology test labs. Building on the successful deployments of ROME® 360, the ROME® is designed in 19-inch rack mount chassis with significantly increased density and reduced cost.

Features & Benefits

- Automated Fiber Patch Panel
- Remotely Re-Configurable
- Single-Mode or Multi-Mode
- No Electronic Latency
- All Optical - Low Optical Loss
- CLI Interface
- Robotic Precision
- Bitrate & Wavelength Independent
- Patented Mechanical Latching Technology
- Redundant, Hot-Swappable Power Supply

Applications

- Data Center Architecture
- Spine & Leaf Configuration
- Lab Automation
- Central Office and/or Remote Site Management
- FTTx - Remote Provisioning, Testing, Troubleshooting, and Grooming
- Co-Location / Carrier Hotel

Specifications	ROME® 250	ROME® 500
Optical Characteristics		
Fiber	256 Fibers	512 Fibers
Configurations	Duplex Any to Any Simplex East to West	Duplex Tandem Duplex East to West Simplex East to West Tandem
Fiber Type	Single Mode SMF-28e, Multi-Mode OM4	
Insertion Loss	1.0 dB Max (Patch panel to patch panel)	
Return Loss	Single Mode	Mutli-Mode
	-50 dB UPC, -60 dB APC	-25 dB
Switching Time	25 sec (Typical)	
Power Requirements		
Power Supply Options	AC/DC Redundant/Hot Swappable	
LCU Power Consumption	100-240 V; 50/60 Hz 4A per input, -48/-60 Vdc, 8A per input (ROME Chassis powered by LCU)	
Environmental Conditions		
Temperature Range (operating)	0 °C to 40 °C (32 °F to 104 °F)	
Temperature Range (storage)	-40 °C to 70 °C (-40 °F to 158 °F)	
Relative Humidity (non-condensing)	5% to 95%	
Mechanical Specifications for Main Chassis		
Rack Unit	19" 10RU	
Ground Clearance	Minimum 12" (305mm) from Rack Floor to Bottom of the ROME®	
Front Clearance	Minimum 30" (762mm) from Front of Rack	
Dimensions	17.4" (442mm) Width, 17.5" (443mm) Height, 31" (791mm) Depth	
Mounting Rail Distance	35.22" (894.59mm) to 42.52" (1080.01mm)	
Weight	192 lbs (87kg)	
Mechanical Specifications for Logical Control Unit (LCU)		
Rack Unit	19" 1RU	
Dimensions	17.5" (444mm) Width, 1.7" (44mm) Height, 27.5" (698.25mm) Depth	
Mounting Rail Distance	35.22" (894.59mm) to 42.52" (1080.01mm)	
Weight	30 lbs (13.5 kg)	
Network Interfaces	Ethernet: RJ45, Console: RJ45 and DB9	

Safety Compliance	EMC Compliance
<ul style="list-style-type: none"> ANSI/UL 60950-1 / CSA 60950-1 (USA / Canada) EN60950-1 (Europe) IEC60950-1 (International), CB Certificate & Report Including All Group and Country Deviations Low Voltage Directive 2006/95/CE (Europe) 	<ul style="list-style-type: none"> FCC /ICES-003 - Emissions (USA / Canada) CISPR 22/32 - Emissions (International) EN55022/32 - Emissions (Europe) EN55024 - Immunity (Europe) EN 300 386 - Emissions & Immunity (Europe) EN61000-3-2 - Harmonics (Europe) EN61000-3-3 - Voltage Flicker (Europe) EMC Directive 2004/108/EC (Europe)
Additional Compliances <ul style="list-style-type: none"> CE Declaration of Conformity (Europe) FCC/ICES-003 Class A Verification Report (USA / Canada) RoHS Compliant Reach Compliant In Process of Conflict Minerals Certification 	