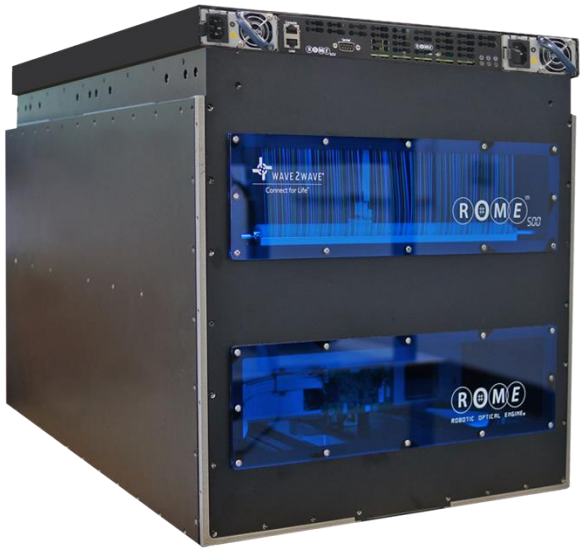
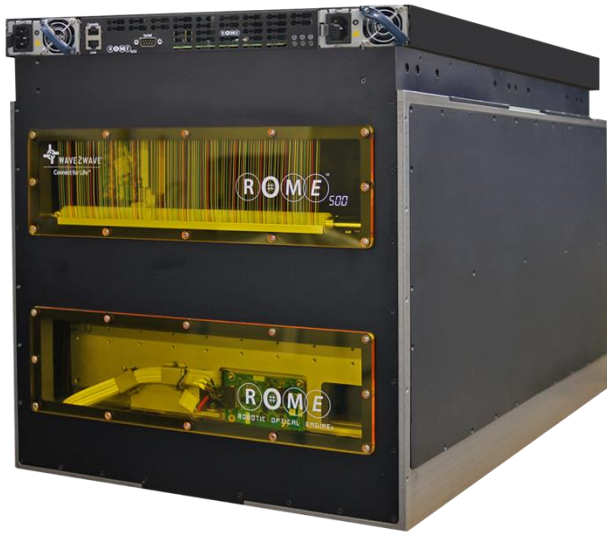
ROBOTICS FiberSmart

ROME™ ROBOTIC OPTICAL ENGINE

ROME® - Robotic Optical Management Engine





Overview

ROME® is a robotic optical switch that offers dynamic fiber cross connect capability at layer 0. ROME® enables physical fiber connections to be made automatically, remotely, quickly, and without on-site manual intervention. ROME® delivers superior optical performance and low insertion loss. ROME® is completely transparent to transport protocols, wavelengths and signal rates.

With ROME®, data center, telco & lab operators benefit from reduced CAPEX and OPEX as well as improved reliability and security, while future-proofing their critical infrastructure.

Features & Benefits

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

Applications

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

Compact patch panel in 4 RU; usually mounted within the same rack position as the Robotic Unit (at the rear), but flexible positioning includes front of rack, rear of rack or adjacent rack options.

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Specifications	ROME® 500
Optical Characteristics	
Fiber	512 Fibers
Configurations	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 (Nominal)	Single Mode -50 dB / Multi-mode -25 dB
RL (Patch Panel to Patch Panel)	Single Mode -45 dB / Multi-mode -22 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	29" (736.6mm) to 43" (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	29" (736.6mm) to 43" (1080.01mm)
Weight	30 lbs (13.5 kg)
Network Interfaces	Ethernet: RJ45, Console: RJ45 and DB9

Safety Compliance

- 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)

Additional Compliances

- CE Declaration of Conformity (Europe)
- FCC/ICES-003 Class A Verification Report (USA / Canada)
- RoHS Compliant
- Reach Compliant
- In Process of Conflict Minerals Certification

EMC Compliance

- 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)