

RTUe-9120 external optical switch

HIGH-DENSITY 1×N MEMS-TYPE OPTICAL SWITCH UNIT

- Highest optical-switch-port density for OTDR-based remote fiber test systems and fiber monitoring applications.



KEY FEATURES

- Reliable 1×N MEMs optical switch
- MPO 16-fiber connectors
- Available in 32, 64, 128 and 256 ports
- Small footprint – ½ U
- High port density, up to 512 ports / 1 U
- Low insertion loss for such a high port count
- Lifetime of over 2.5 billion cycles
- Very low power consumption

APPLICATIONS

- PON/FTTx central remote testing and monitoring
- Large- or edge-site fiber testing and surveillance
- Data-center interconnect and campus monitoring with large cable fiber counts

RELATED PRODUCTS



OTDR based remote test unit
RTU-2



Test Access Module Kit (TAMK)

OPTICAL SPECIFICATIONS

Parameter	Min.	Typical	Max.
Insertion loss ^a —All models at 1310, 1550 and 1650 nm (dB)		2	
Crosstalk ^b (dB)	50		–50
Back reflection ^b (dB)			–45
Switching time (ms) ^e			50
Durability (cycles)		2.5 billion	
Fiber type		9/125 µm singlemode fiber	
Connector type Output Input		MPO-APC (16 fibers populated onto a standard MPO 24 fibers ferrule) SC-APC	

ELECTRICAL SPECIFICATIONS

Latching type	Non-latching
Supply type	USB 2.0
Operating power consumption	~1 W

GENERAL SPECIFICATIONS

Chassis size	½ U, rackmount chassis (19")
Size (H × W × D)	22 mm × 440 mm × 220 mm (7/8 in × 17 5/16 in × 8 11/16 in)
Weight	1.2 kg (2.6 lb)
Temperature Operating ^c Storage ^d	–5 °C to 50 °C (23 °F to 122 °F) –40 °C to 70 °C (–40 °F to 158 °F)
Optical connector location	Front panel
Accessories included • Instruction manual (hard copy) • GP-3120: 1U rackmount brackets (kit of 2) • Extender brackets to ETSI rack size • 1.5 m optical jumper SC-APC to SC-APC with FLEX boots • USB cable, 1.8 m, right-angle connector	

a. Measured at 23 °C ± 5 °C, including input and output connectors.

b. Measured at 1550 nm.

c. With less than 80% relative humidity, non-condensing.

d. With less than 95% relative humidity, non-condensing.

e. Typical. For 1x256 configuration, switching time can be up to 300 ms.

ORDERING INFORMATION

RTUe-9120-SPLX-XX

Configuration ■

32 = 1×32 port optical switch
 64 = 1×64 port optical switch
 128 = 1×128 port optical switch
 256 = 1×256 port optical switch

Example: RTUe-9120-SPLX-32

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