

RTUe-9120 external optical switch

HIGH-DENSITY 1XN MEMS-TYPE OPTICAL SWITCH UNIT



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

SPEC SHEET

KEY FEATURES

Reliable 1XN MEMs optical switch

MPD 16-fiber connectors

Available in 32, 64, 128 and 256 ports

Small footprint – 1/2U

High port density, up to 512 ports/1U

Low insertion loss for such a high port count

Lifetime of over 2.5 billion cycles

Very low power consumption

MAIN 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

COMPATIBLE PRODUCTS AND ACCESSORIES



OTDR based remote test unit
RTU-2



Test access module (TAM) kit

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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)			150
Durability (cycles)		2.5 billion	
Fiber type		9/125 µm singlemode fiber	
Connector type	Output	MPO-APC (16 fibers populated onto a standard MPO 24 fibers ferrule)	
	Input	SC-APC	

ELECTRICAL SPECIFICATIONS

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

GENERAL SPECIFICATIONS

Chassis size	1/2 U, rackmount chassis (19")
Dimensions	22 mm x 440 mm x 220 mm (7/8 in x 17 5/16 in x 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.

ORDERING INFORMATION

RTUe-9120-SPLX-XX

Configuration ■

- 32 = 1 x 32 port optical switch
- 64 = 1 x 64 port optical switch
- 128 = 1 x 128 port optical switch
- 256 = 1 x 256 port optical switch

Example: RTUe-9120-SPLX-32

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