

MU150135A 10/10.7G Optical Unit(XFP)

MP1590B / MP1591A

Network Performance Tester

Small footprint unit for evaluating 10/10.7G optical interfaces

Cost reduction for XFP applications

This unit installs a 10/107G optical interface in the MP1590B and MP1591A. Previously, both the MU150121A 10/10.7G Optical Unit (Tx) and the MU150122A Optical Unit (Rx narrow) were required to install a 10/10/7G optical interface in the MP1590B and MP1591A, but now the MU150135A uses an XFP transceiver to support both Rx and Tx with one unit, cutting equipment costs and saving space too.



MU150135A 10/10.7G Optical Unit (XFP) External view

Old Configuration



MU150100A



MU150121A



MU150122A



New Configuration



MU150100A



MU150135A



An Ethernet module in the MD1230 family can be installed in the free slot.
10M to 10G Ethernet and 1.5M to 10.7G PDH/DSn/SDH/SONET/OTN modules can be installed in one MP1590B main frame.

Specification

- The supported bit rates are listed below:
9,953.28Mbit/s, 10,312.5Mbit/s(*1), 10,709.225Mbit/s
(*1) Requires additional external clock source
- 9953 Mbit/s, 10.3 Gbit/s, and 10.7 Gbit/s jitter measurements are not supported.
- The functional differences from the MU120121/22A are listed below.
LOS Input (Burst)
MU150135A: 10 to 10000 ms (10ms steps)
MU150121A: 1 to 8000000 μ s (1 μ s steps)
LOS Detection Error
MU150135A: +/-100 μ s
MU150122A: +/-10 ms
- The optical interface specification are listed below (based on separately sold XFP transceiver).

Unit Name	MU150135A		MU150121/22A (reference)	
	1.31	1.55	1.31	1.55
Input				
Wavelength	1260 to 1355 nm	1260 to 1580 nm	1260 to 1610 nm	
Received power	-11 to +0 dBm	-14 to -2dBm	-14 to 0 dBm	
Absolute maximum optical input	+0.5dBm	-1dBm	+3dBm	
Return loss	more than 12dB	more than 21dB	more than 27dB	
Output				
Wavelength	1310+/-20 nm	1530 to 1565 nm	1310+/-20 nm	1550+/-20 nm
Spectrum range	less than 1nm @ -20dB		less than 0.5nm @ -20dB	
Side mode suppression ratio	more than 30dB		more than 30dB	
Extinction ratio	more than 6dB	more than 8.2dB	more than 10dB	
Output power	-6 to -1 dBm	-1 to +2dBm	0 to +3 dBm	
Optical Output Power Adjustable	Not Available		Available	

Ordering Information

Model / Order No.	Name
MU150135A	- Unit - 10/10.7G Optical Unit(XFP)
	- Optional Accessories -
G0194A	1310nm XFP Module
G0195A	1550nm XFP Module
J1344A	Optical Fiber Cable (SM, LC-LC connector both ends), 1 m
J1327B	Optical Fiber Cable (SM, LC-LC connector both ends), 2 m
J1376A	Fixed Optical Attenuator (5 dB, LC connector)
Z0989A	1310nm XFP kit (*2)
Z0990A	1550nm XFP Kit (*3)

(*2) Z0989A includes G0194A and J1344A.

(*3) Z0990A includes G0195A, J1344A, and J1376A.