

# Node Optical Test Access Unit (OTAU)

- Combines with the FG-750 Node iOLM as part of the first practical FTTx line quality assessment solution from the node.



## KEY FEATURES AND BENEFITS

Only 5U-high optical switch with 576 and 720 test ports

Outstanding maximum insertion loss 0.8 dB

Controllable through Ethernet for local or remote use

Dual-feed (-48 Vdc)

8-fiber MPO connectors at the rear for connection to TAMs or to patch panels

Low-consumption, long-lasting optomechanical system

## PART OF THE FG-700 FIBER GUARDIAN SERIES



FG-750 Node iOLM



Test Access Module Kits (TAMK)

## LARGE, DENSE 1XN OPTICAL TEST ACCESS UNIT

Optical test access units (OTAs) are test access units that are used to programmatically connect a fiber under test to test equipment through an optical switching subsystem. This product can create a temporary and low-insertion loss optical path between the test equipment and the fiber when characterizing, troubleshooting or testing any degradation (monitored).

OTAs are designed to be connected to an OTDR, specifically EXFO's Fiber Guardian, thus allowing a single instrument to test up to 720 fibers in a very dense capacity.

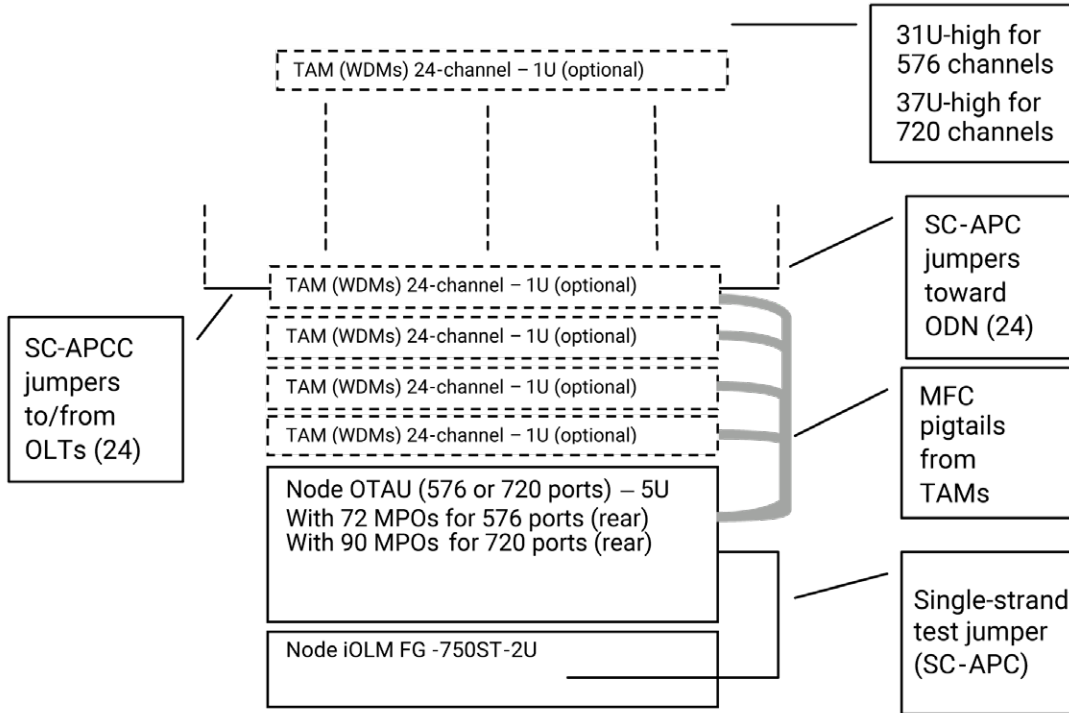


Figure 1. Typical rack test system with Node iOLM Fiber Guardian, Node OTAU and TAM kits.

When installed in a 40U-size rack, setup consumes less than 60 W.

TAMs are optional because a first stage 2xn (n=1,2,...) can also be used to combine the OTDR signal to the line.

**576/720-CHANNEL NODE OTAU SPECIFICATIONS**

OTDR connection port	1 port (SC-APC)
Number of connection ports	576 ports: 8MPO x 72 720 ports: 8MPO x 90
Additional optical switch connection port	4 ports (SC-APC)
Fiber type	Singlemode
Dimensions (H x W x D)	220 mm x 445 mm x 500 mm (8.66 po x 17.5 po x 19.69 po)
Weight	≤16 kg (35 lb)
Insertion loss (dB)	≤0.8 <sup>a, b</sup>
Repeatability (dB)	≤0.3 <sup>a, b</sup>
Return loss (dB)	≥35 <sup>a, b</sup>
Crosstalk (dB)	≥80 <sup>a, b</sup>
Switching time	≤10 s to any channel, ≤1 s to adjacent channel
Durability	≥5 x 10 <sup>6</sup> switching
Control interface	Ethernet: RJ-45 (10Base-T/100Base-TX)
Temperature	Operating: 0 °C to 50 °C (32°F to 122°F) Storage: -40 °C to 70 °C (°F to 158°F)
Relative humidity	≤85 % RH (non-condensing)
EMC	Emission: EN61326-1 2006 (Class A) Immunity: EN61326-1 2006 (Table 2)
Power supply two -48Vdc inputs <sup>c</sup>	-48 +8/-9 Vdc
Power consumption	≤50 W Typ. 18 W in standby mode Typ. 30 W in operation (changing port)

a. The specifications are without connectors.

b. Insertion loss, repeatability, return loss and crosstalk are measured at 1620 – 1655 nm, 23 ±5 °C.

c. The optical switch has two -48 Vdc inputs in the bridge circuit. When input voltage of one of the two becomes unstable, the optical switch maintains power to the unit.

**ORDERING INFORMATION****Models**

[PS576V008MPO-D48](#) = 576-channel Node OTAU

[PS720V008MPO-D48](#) = 720-channel Node OTAU

Included is a shelf-plate for installation in a 19" rack.

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