Fiber Guardian-Test Modules Selection Chart

			OTDR TEST MODULE SELECTION (OTM)							PORT TYPE SELECTION		
		Dark Metro (DMET)	Dark Core (DCOR)	Active Metro (AMET)	Active Core (ACOR)	NODE OTDR/ iOLM (FTTx/PON)	CWDM	(CDXX)	Custom ¹ OTM	Standard/Expandable (ST/EX)	Optical Test Access Units (OTAUs	
	Key Characteristics	1550 nm, 42 dB	1550 nm, 46 dB	1625 nm, 42 dB, live port (filtered)	Narrow 1650 nm, 43 dB, live port (filtered)	1625/1650 nm, high-resolution, PON optimized iOLM (Link-Aware) or OTDR mode	Narrow 1550 nm, 41 dB filtered on CWDM grid	Narrow, single- lambda 41 dB at: • 1310 nm or • 1490 nm or • 1510 nm or • 1610 nm	Typically, OTDR with more than one wavelength	ST: Fixed number of ports: 1, 4, 8, 12, 24 or 32 in SC-APC EX: Scalable ports from 8 (min.) to 96 (max.)	M-OTAUs: 8-to-96 port remote optical switch Node OTAU: 576- or 720-port switch, MPO 12 fibers	
	Key Benefits		Longest reach; highest measurement range on all pulses	Immune to live power noise in nonamplified links; can serve for mix of dark/lit fiber cases	Immune to live power noise in amplified or high-power transmission links	Test in PON using specific termination filter called a high- reflectance demarcation (HRD) filter (using Node iOLM application)) associated losses/costs related to		Flexibility, specific performance or usage	ST: Best value, low maintenance EX: Scalable, pay as you grow, reconfigurable, high density	M-OTAUs: Reduce fiber utilization for metro-edge, scalability over ST port Node OTAU: Highest density, lowe cost per port, large port count	
APP	LICATIONS											
using and fi	Cable Monitoring (dark) dedicated PON splitters bers to reach and monitor tribution cables					Vsing HRDs; no need for TAMs ² .				ST or EX		
Conne E2E le	Certification ectivity validation and oss during provisioning or ng activities					Using HRDs; E2E loss measured at 1650 nm on dark or lit (using TAMs) PONs				EX (reconfigurable)		
FTTH on PO	in-service surveillance N					Vsing HRDs				ST (1-port)	Node OTAUs used with single port FG-750	
in Me Active	ess Services/SLA tro Access e, remote fiber testing nonitoring			Traffic at 1310 or 1550, or WDM (1310 and 1550)	Out-of-band CWDM traffic	Out-of-band (if PON is also used or will be used in future)	\checkmark			ST or EX	M-OTAUs (optional, typical with ST)	
such	e r Ethernet Metro Rings as W- backhaul, cloud ces, triple play, HFC, etc.			DWDM traffic (not amplified); active/dark fiber mix	Out-of-band ³ CWDM traffic		In-band ⁴ CWDM typical on an express channel	In-band CWDM on a reserved channel		ST or EX	M-OTAUs (optional, typical with ST) Node OTAU for high-count, e.g., FTTN or HFC (optional for ST)	
Monit One to	re Network Cable oring o two fibers per cable maintenance fiber	1	1					1		ST		
Active	Distance Amplified Links e, remote fiber testing nonitoring				As per ITU recommendation					ST		
Fiber deplo	al and Fixed Remote Characterization during yment and/or prior to e activation on P2P fibers								~	ST or EX		

 ^{1}C ² TA ³ Out-of-band involves coupling the OTDR wavelength onto the fiber carrying traffic in other wavelength bands using a WDM or broadband couple ⁴ In-band involves usage of the existing/planned CWDM couplers, and exclusive or temporary usage of a channel for remote testing and/or monitoring purposes.

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