

## TM-SERIES PRODUCTS

MUXPONDERS		
2.5G	MXP8/II	8-client port STM-16/OC-48 Muxponder. STM-1/STM-4/OC-3/OC-12.
4G	MS-MXP	8-client port, 4G Multi-Service Muxponder. Dual line interfaces for 1+1 protection. SDH/SONET/GbE/SAN. 4x 4G Regenerator.
10G	9xCbE /10G MXP	9-client port 10G Muxponder. Gb, FE.
	9xCbE/10G FEC MXP	9-client port 10G FEC Muxponder. GbE, FE. Dual line interfaces for 1+1 protection.
	4x2G5-10G MXP	4-client port STM-64/OC-192 Muxponder. STM-16/OC-48. Optional FEC.
	10G MS-MXP	10-client port Multi-Service Muxponder. SDH/SONET, Ethernet, SAN etc. Multiple traffic images. FEC on line. Dual line ports for 1+1 Line protection.
40G	10G MS-MXP/TC-ER	10-client port Multi-Service Muxponder. Fixed/tunable line port. SDH/SONET, Ethernet, SAN etc. Multiple traffic images. EFEC on line.
	MS-MXP/40G	4-client port 40G Multi-Service Muxponder. 10G iWDM, STM-64/ OC-192, 10GbE WAN/LAN in any mix.
100G	MXP/100G	10-client port 100G Muxponder. STM-64/ OC-192, OTU2, OTU2e, 10GbE WAN/LAN in any mix. TM-2000 mount.
	Multi-Service Access	Multi-Service Access Collector Node. 16xE1/T1 (RJ48C) + 4xFE/GbE optical (SFP) or electrical (RJ45).
	MBH	Multi-Service Hub unit. 4xSTM-1/OC-3 and 16x Ethernet client interfaces.
TRANSPONDERS		
2.5G	TPQMR	4x Multi-Rate Transparent (125Mb/s-2.7Gb/s) Transponder and Regenerator.
	TPDDGBE	2x (2xCbE) Transponder. Dual line interfaces for 1+1 protection. 4x 2.5G Regenerator.
4G	TPQMS	Quad Multi-Service Transponder. 1G/2G/4G FC. 4x 4G Regenerator.
	TPQMP	Quad Multi-Protocol (125Mb/s-4.25Gb/s) Transponder and Regenerator.
10G	TPD10G-Lite	Dual 10G Lite Transponder. 2G/4G/8G/10G FC, 10GbE, STM-64/OC-192, OTU2, OTU2e. 2x 10G Regenerator.
	TPQ10GFEC	Quad 10G Multi-Service Transponder. STM-64/OC-192, 10GbE-WAN, 10GbE-LAN. 2xRegenerator.
	TPD10GBE	Double 10GbE FEC Transponder. STM-64/OC-192, 10GbE-WAN, 10GbE-LAN. 2xRegenerator.
	TP10G/TC-ER	10G Tunable EFEC Transponder Tunable C-band – Extended Reach. SDH/SONET/10GbE.
	TP10GOTN	10G Tunable OTN Transponder. STM-64/OC-192, 10GbE-LAN/WAN, OTU2. OTU2/OTU2e line interface (DWDM fixed/tunable).
40G	MS-TP/40G	40G Multi-Service Transponder. 40GbE-LAN, PoS, STM-256/OC-768.
100G	TP100G	100G Transponder. OTU4, 100GbE-LAN. TM-2000 mount.
LAYER 2		
	EDU/5	4 port Gigabit Ethernet Demarcation Unit. MEF9 + MEF14 certified. Multiple product models available; see datasheet for details.
	EDU/10	2/4 port 10G Ethernet Demarcation Unit. MEF9 + MEF14 certified. Multiple product models available; see datasheet for details.
	EMXP/II, EMXP/IIe	Ethernet Muxponder and switch. CE2.0 services E-LINE, E-LAN, E-TREE and E-ACCESS, MEF9 + MEF14 certified; MPLS-TP, Sync-E. Multiple product models available; see datasheet for details.
ROADMS		
ROADM	1x2 ROADM	2-degree ROADM, 50/100GHz.
	1x4 ROADM	4-degree ROADM, 100GHz.
	1x8 ROADM	8-degree ROADM, 50GHz.
OPTICAL NETWORKING EQUIPMENT		
Amplifiers	OAR450, OA26C	Raman Amplifier, Power Extender C-Band.
	OA17, OA20	Several EDFA Amplifier models available with different gain characteristics.
VOA units	VOA-8CH, VOA-2CH	8ch (using VOA-SFP) and 2ch Variable Optical Attenuators.
MuxDemux	MDU16, MDU8, MDU40	Several colored models available. One 16ch colorless version.
Power Meter	OCM/2P	2-port DWDM Optical Channel Monitoring unit.
CAPACITY TECHNOLOGY		
DWDM		Fiber-pair: 80ch @ 50GHz spacing & 40/32ch @ 100GHz spacing. Single-fiber: 20ch @ 100GHz spacing (unamplified) & 16ch @ 200GHz spacing (amplified).
CWDM		Fiber-pair: 8ch (1470 – 1610nm). Single-fiber: 8ch (1270 – 1610nm).
CHASSIS		
TM-3000	19", ETSI, 23"	10U, Up to 17 full-sized slots / 10 half-sized slots.
TM-301	19", ETSI, 23"	3 U, Up to 4 full-sized slots / 4 half-sized slots.
TM-101/102	19", ETSI, 23"	1 U, 1 full-sized slot + 1 half-sized slot.
TM-2000	19", ETSI, 23"	4U, 2 slot. High speed chassis for 100G traffic units.



TM-3000



TM-301



TM-102