



## T-BERD / MTS-5800 Series

5800-100G Configuration Guide

Feature information further down is specific to 5800-100G

### Configurations

Unit	10, 100, 1000 Mbps Electrical and 1 G Optical Ethernet (C510M1GE)	10 GE LAN (C510GELAN)	Ethernet				SONET/SDH				PDH		
			10 GE WAN (C510GEWAN)	40 GE (C540GE)	100 GE (C5100GE)	OC-3, OC-12, STM-1, and STM-4 (C5LSSONSDH)	OC-48 and STM-16 (C525GSONSDH)	OC-192 and STM-64 (C510GSONSDH)	DS1 and E1 (C5E1DS1)	DS3 and STS-1e (C5DS3STS1)	E3, E4, and STM-1e (C5E3E4STM1E)		
T-BERD/MTS-5801	x					x	x						
T-BERD/MTS-5801P	x					x	x			x		x	x
T-BERD/MTS-5802	x					x	x						
T-BERD/MTS-5802P	x					x	x			x		x	x
T-BERD/MTS-5811P	x	x		x		x	x	x		x		x	x
T-BERD/MTS-5811PL	x	x		x		x	x	x		x		x	x
T-BERD/MTS-5812	x	x		x		x	x	x					
T-BERD/MTS-5812P	x	x		x		x	x	x		x		x	x
T-BERD/MTS-5822P	x	x		x		x	x	x		x		x	x
T-BERD/MTS-5800-100G	x	x		x		x	x	x		x		x	x

Unit	OTN					Fibre Channel			
	OTU1 (C5OTU1)	OTU2 (C5OTU2)	OTU2e (C5OTU2E)	OTU3 (C5OTU3)	OTU4 (C5OTU4)	1, 2, and 4 GFC (C51G2G4GFC)	8GFC (C58GFC)	10GFC (C510GFC)	16GFC (C516GFC)
T-BERD/MTS-5801						x			
T-BERD/MTS-5801P						x			
T-BERD/MTS-5802						x			
T-BERD/MTS-5802P						x			
T-BERD/MTS-5811P	x	x	x			x	x	x	x
T-BERD/MTS-5811PL						x	x	x	x
T-BERD/MTS-5812						x			
T-BERD/MTS-5812P						x			
T-BERD/MTS-5822P	x	x	x			x	x	x	x
T-BERD/MTS-5800-100G	x	x	x	x	x	Planned	Planned	Planned	Planned

Unit	Optical Line Rate Testing					CPRI				
	3.072 Gbps (C5L5L131G)	9.8 Gbps (C5H5L198G)	614 Mbps (C5614MCPRI)	1.2 Gbps (C512GCPRI)	2.4 Gbps (C524GCPRI)	3.072 Gbps (C53GCPRI)	4.9 Gbps (C549GCPRI)	6.1 Gbps (C561GCPRI)	9.8 Gbps (C598GCPRI)	10.1 Gbps (C510GCPRI)
T-BERD/MTS-5801	x		x	x	x	x				
T-BERD/MTS-5801P	x		x	x	x	x				
T-BERD/MTS-5802	x		x	x	x	x				
T-BERD/MTS-5802P	x		x	x	x	x				
T-BERD/MTS-5811P	x	x	x	x	x	x	x	x	x	x
T-BERD/MTS-5811PL	x	x	x	x	x	x	x	x	x	x
T-BERD/MTS-5812	x	x	x	x	x	x			x	
T-BERD/MTS-5812P	x	x	x	x	x	x			x	
T-BERD/MTS-5822P	x	x	x	x	x	x	x	x	x	x
T-BERD/MTS-5800-100G	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned	Planned

Unit	OBSAI				Dual Port		
	768 Mbps (C5768MOBSAI)	1.5 Gbps (C515GOBSAI)	3.072 Gbps (C53GOBSAI)	6.1G OBSAI (C561GOBSAI)	Low Speed Rates up to 3G (C5DUALPORT)	10 G Rates 4.9G to 16G (C5DUAL10G)	High Speed Rates (C5DUAL100G)
T-BERD/MTS-5801	x	x	x				
T-BERD/MTS-5801P	x	x	x				
T-BERD/MTS-5802	x	x	x		x		
T-BERD/MTS-5802P	x	x	x		x		
T-BERD/MTS-5811P	x	x	x	x			
T-BERD/MTS-5811PL	x	x	x	x			
T-BERD/MTS-5812	x	x	x		x		
T-BERD/MTS-5812P	x	x	x		x		
T-BERD/MTS-5822P	x	x	x	x	x	x	
T-BERD/MTS-5800-100G	Planned	Planned	Planned	Planned	x	x	x

Markers (x) indicate that an item can be purchased permanently or as 30-day timed option. To purchase for 30 days only, add the suffix '-T30' to the product part number  
For field upgrades (which are available for all configurations), add '-U1' to the product part number

**Ethernet Interfaces**

Tests	10, 100, 1000 Mbps Electrical and 1 G Optical (C510M1GE)		10GE LAN (C510GELAN)		10GE WAN (C510GEWAN)		40GE (C540GE)		100GE (C5100GE)	
	Standard	Optional	Standard	Optional	Standard	Optional	Standard	Optional	Standard	Optional
<b>Baseline</b>										
L1 BERT	x		x		x		x		x	
L2 BERT	x		x		x		x		x	
<b>Service Activation</b>										
J-QuickCheck™	x		x		x		x		x	
Enhanced RFC 2544	x		x		x		x		x	
J-Connect	x		x		x					
Multiple streams/CoS SAMComplete™ Y.1564 with CBS		x (C5COS)		x (C5COS)				x (C5COS)		x (C5COS)
J-Proof Layer 2 transparency		x (C5JPROOF)		x (C5JPROOF)				x (C5JPROOF)		x (C5JPROOF)
Layer 4 TCP/UDP TrueSpeed™		x (C5LSLAYER4)		x (C510GLAYER4)						
<b>Fault Isolation</b>										
J-Profiler Top Talker		x (C5LSJPROFILER)								
Packet Capture and J- Mentor		x (C5LSCAPTURE)		x (C510GCAPTURE)		x (C510GCAPTURE)		x (C5100GCAPTURE)		x (C5100GCAPTURE)
<b>Synchronization and Timing</b>										
One-Way Delay		x (C5OWD)		x (C5OWD)		x (C5OWD)				
Optical SyncE		x (C5LSSYNCE)		x (C510GESYNCE)						
PTP IEEE 1588		x (C5LS1588)		x (C510G1588)						
Optical Gigabit Ethernet Wander*		x (C5LSETHWANDER)								
<b>Network Configuration</b>										
IPv4	x		x				x		x	
IPv6		x (C5IPV6)		x (C5IPV6)				x (C5IPV6)		x (C5IPV6)
VLAN and VLAN stacking (Q- in-Q)	x		x		x		x		x	
RS-FEC										x (C5RSFEC)
MAC-in-MAC (PBB)		x (C5MACINMAC)		x (C5MACINMAC)						
MPLS-TP and OAM		x (C5MPLSTP)		x (C5MPLSTP)						
MPLS/VPLS		x (C5MPLSVPLS)		x (C5MPLSVPLS)		x (C5MPLSVPLS)		x (C5MPLSVPLS)		x (C5MPLSVPLS)
Ethernet OAM		x (C5ETHOAM)		x (C5ETHOAM)						

**SONET/SDH Interfaces**

Tests	OC-3, OC-12, STM-1, and STM-4 (C5LSSONSDH)		OC-48 and STM-16 (C525GSONSDH)		OC-192 and STM-64 (C510GSONSDH)	
	Standard	Optional	Standard	Optional	Standard	Optional
L1 BERT	x		x		x	
L2 BERT	x		x		x	
J-Scan	x		x		x	

**OTN Interfaces**

Tests	OTU1 2.7 Gbps (C5OTU1)		OTU2 10.7 Gbps (C5OTU2)		OTU1e 11.05 Gbps and OTU2e 11.1 Gbps (C5OTU2E)		OTU3 43 Gbps (C5OTU3)		OTU4 111.8 Gbps (C5OTU4)	
	Standard	Optional	Standard	Optional	Standard	Optional	Standard	Optional	Standard	Optional
L1 BERT	x		x		x		x		x	
L2 BERT					x		x		x	
OTN Check	x		x		x		x		x	
Enhanced RFC 2544					x		x		x	
SONET/SDH Client	x		x							
ODU3 Multiplexing ODU3 Bulk BERT										x (C5ODU3)
ODU2 Multiplexing ODU2 Ethernet/GFP-F Client (ITU-T G.7041 Section 7.1) ODU2 Bulk BERT								x (C5ODU2)		x (C5ODU2)
ODU2e Multiplexing ODU2e 10GigE/transparent Client ODU2e Bulk BERT								x (C5ODU2)		x (C5ODU2)
ODU1 Multiplexing ODU1 Bulk BERT				x (C5ODU1)				x (C5ODU1)*		x (C5ODU1)*
ODU0 Multiplexing ODU0 GE/GFP-T Client ODU0 Bulk BERT		x (C5ODU0)		x (C5ODU0)				x (C5ODU0)*		x (C5ODU0)*
ODUFLEX Multiplexing (up to 8 TS) ODUFLEX MAC/GFP-F Client ODUFLEX Bulk BERT				x (C5ODUFLEX)				x (C5ODUFLEX)		x (C5ODUFLEX)

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\* Dual level mappings supported

**PDH Interfaces**

Tests	DS1 and E1 (C5E1DS1)		DS3 and STS-1e (C5DS3STS1)		E3, E4, and STM-1e (C5E3E4STM1E)	
	Standard	Optional	Standard	Optional	Standard	Optional
BERT	x		x		x	
DS1 and E1 PRI	x					
PDH Wander		x (C5PDHWND)				
HDLC Monitor		x (C5DS1DS3HDLC)		x (C5DS1DS3HDLC)		
DS1 PPP Ping		x (C5DS1DS3HDLC)				
HDLC Capture		x (C5HDLCCAPTURE)				

**Timing Analysis**

Tests	1 PPS, 2 MHz, and 10 MHz	DS1 and E1	1 G Optical Ethernet
L1 BERT	x (C5TIMING)	x (C5E1DS1), (C5PDHWND)	x (C510M1GE), (C5LSETHWANDER)

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**Test and Mainframe Options**

Description	Part Number
VT-100	C5VT100
Bluetooth®	C5BT
WiFi option including 802.11 dongle	C5WIFI
PC application for rental optioning	C5RENTAL
Ethernet loopback	C5ETHLPBK

**OTDR Options**

Description	Part Number
SmartLink Mapper (SLM) icon-based OTDR results	ESMARTLINK-5K
SLM FTTH user interface and cell-site algorithm	ESMARTFTTH-5K
SLM FTTA user interface and cell-site algorithm	ESMARTFTTA-5K

**Expansion Modules**

Description	Part Number
Timing expansion module with GPS and rubidium	CSTEM-R
Multimode 850/1300 nm OTDR module	E4123MM
Multimode/single-mode 850/1300/1310/1550 nm OTDR	E4146QUAD
LA 1550 nm OTDR module	E4115LA
Filtered LA 1650 nm OTDR module	E4118RLA65
LA 1310/1550 nm OTDR module	E4126LA
Metro/access 1310 1550 nm OTDR module	E4126MA
Metro/access 1310 1550 1625 nm OTDR module	E4136MA
Metro/access 1310 1550 and 1625F nm OTDR module	E4136RMA
Metro/access 1650F nm OTDR module	E4118RMA65
MP 1650F nm OTDR module	E4118RMP65
MP 1310/1550 nm OTDR module	E4126MP
MP 1310/1550/1625 nm OTDR module	E4136MP
MP 1310/1550/1625F nm OTDR module	E4136RMP
MP 1310/1550/1650F nm OTDR module	E4138RMP65
8 wavelength CWDM OTDR	E41CWDM8U
10 wavelength CWDM OTDR	E41CWDM10L
COSA-4055 CWDM analyzer with SFP bay	2301/02



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