

PRODUCT INTRODUCTION

OTM2500 Series 2.7G/10.7G OTN Transport Test Module



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OTM2500 OTN transport test module can be configured on OTP6200 test platforms to achieve complete PDH/SDH/SONET/OTN test functionalities and offer comprehensive test solutions for metro network. It is a high cost-effective network test product.

Features

- Offer test functions from PDH/DSn1.5M to 2.5G/10G SDH/SONET/OTN
- Automatic signal structure discovery in smartmode; automatically detect and monitor error paths
- Intuitionistic user interface, fast configuration of signal paths
- Customizable various forms of test report

Specifications

SPECIFICATIONS		
Test Interfaces		
XFP 10G(10.7G/11.05G/11.1G) optical interface (STM-64/OC-192/OTU2/OTU1e/OTU2e)		
SFP 155M/622M/2.5G(2.7G) optical interface (STM-1/4/16, OC-3/12/48, OTU1)		
BNC 155M electrical interface (STM-1e/STS-3e)		
BNC 1.5M/2M/34M/45M/140M PDH electrical interface (DS1/E1/E3/DS3/E4)		
Test Features		
OTN		
Payloads	Support mapping/demapping of AU-3/AU-4/AU-4-4c/AU-4-16c to ODU1 Support mapping/demapping of AU-3/AU-4/AU-4-4c/AU-4-16c/AU-4-64c to ODU2 Support multiplexing/demultiplexing of 10G BASE-R to OTU2(packed by GFP-F)/ ODU1e/ ODU2e Support multiplexing/demultiplexing of ODU1 to ODU2, ODU0 to ODU1, ODU0 to ODU2 and ODUflex to ODU2	
Test patterns	PBBS	2E23,2E31
	User	Allowing user define 8-byte test pattern
Error injection	FAS, BIP-8(SM, PM, TCM1-6), BEI(SM, PM, TCM1-6), Bit(CLIENT), FECcorrectable bit, FECcorrectable code word, FECuncorrectable code word, FECcorrectable symbol	
Error injection mode	Single, rate, continuous, alternative, burst, frame operation	
Alarm generation	OTU: LOF, OOF, LOM, OOM, OTU-AIS, SM-BDI, SM-IAE, SM-TIM, SM-BIAE ODU: ODTU-LOFLOM, ODU-AIS, ODU-OCI, ODU-LCK, ODU-BDI, ODU-TIM, ODU-FSF, ODU-BSF, ODU-FSD, ODU-BSD ODU-TCM1~6: TCM-BDI, TCM-IAE, TCM-BIAE, TCM-TIM, TCM-LTC OPU: OPU-PLM, OPU-CSF, OPU-MSIM, CLIENT-LSS	
Alarm generation mode	Continuous, alternative, burst	
Test result	Error	FAS, BIP-8(SM, PM, TCM1-6), BEI(SM, PM, TCM1-6), Bit(CLIENT), FECcorrectable bit, FECcorrectable code word, FECuncorrectable code word, FECcorrectable symbol
	Alarm	OTU: LOF, OOF, LOM, OOM, OTU-AIS, SM-BDI, SM-IAE, SM-TIM, SM-BIAE ODU: ODTU-LOFLOM, ODU-AIS, ODU-OCI, ODU-LCK, ODU-BDI, ODU-TIM, ODU-FSF, ODU-BSF, ODU-FSD, ODU-BSD ODU-TCM1~6: TCM-BDI, TCM-IAE, TCM-BIAE, TCM-TIM, TCM-LTC OPU: OPU-PLM, OPU-CSF, OPU-MSIM, CLIENT-LSS
Forward error correction(FEC)	Using RS(255,239) encoding	
Through mode	Support OTU1/OTU2 advanced through mode	
Other Test and Measurement Functions		
Overhead edition and capture	Overhead edition	All bytes can be edited except MFAS, SM BIP, PM BIP and TCM1-6 BIP
	Overhead capture	Capacity of continuous and variable capture
	Overhead display	Display complete overhead
Service disruption time measurement	Trigger condition	Alarm: LOS, LOM, OOM, SM-IAE, SM-BIAE, ODU-AIS, ODU-OCI, ODU-LCK, PM-BDI; Error: MFAS, PM-BIP, PM-BEI, payload errors.
	Measurement accuracy	0.1ms.

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Power measurement	Support power measurement of optical interface Unit: dBm; accuracy: 0.1dBm; range: -24.5~+4dBm
Frequency offset measurement	Support clock frequency and frequency offset(the difference between receiving frequency and rated frequency) measurement of optical interface Unit: bps and ppm; accuracy: 1 bps and 1ppm
Frequency offset generation	Generate offset for clock of transmission signal in selected port to test clock recovery circuit of network elements. Generation range: ± 100 ppm
PHYSICAL SPECIFICATIONS	
Temperature	Operating: -10°C to 50°C; Storing: -40°C to 70°C
Relative humidity	0% to 95% (non-condensing)
Size (H×W×D)	50 mm x 97 mm x 259 mm
Weight	0.7kg

Ordering Information

Category	Model	Description
Standard Configuration		
Test Module	OTM2512	Dual-slot SDH/OTN test module, support 155M/622M/2.5G/10G optical interface, 155M SDH electrical interface and 1.5M/2M/34M/45M/140M PDH electrical interface, support OTN test with 2.7G/10.7G optical interface, compatible with OTP6200 and OTP6800 platforms
LC/LC fiber jumper	LCLC-0203	One duplex fiber jumper with LC/LC interface, single-mode, 9/125, 3m.
2.5G optical module	GA14022310	One 2.5G SFP optical module, 1310nm, 2km, LX.
10G optical module	GA14021220	One 10G XFP optical module, 1310nm, 2km, LX(for OTM2512).
Optional Configuration		
Accessories	GA14020040	2.5G SFP optical module, 850nm, 550m, SX
	GA14020050	2.5G SFP optical module, 1310nm, 10km, LX
	GA14020060	2.5G SFP optical module, 1550nm, 80km, ZX
	GA14020070	10G XFP optical module, 850nm, 550m, SX
	GA14020080	10G XFP optical module, 1310nm, 10km, LX
	GA14020090	10G XFP optical module, 1550nm, 80km, ZX

Notes: Product ordering information may update along with the product upgrade, please refer to the final version provided by our sales.