

Application

The MTP-1000 is a compact modular platform with up to 3 functional modules, which are specially designed for FTTx/PON applications and can meet all test requirements of installers, contractors and service operators during network installation, service activation, maintenance and troubleshooting

Key Features

- Designed for Metro, Access & FTTx Networks
- Flexible wavelength configurations to meet different requirements
- FTTx in-service testing
- PON OTDR identifies splitter and fiber-end
- Pass-through PON Power Meter simultaneously measures Triple-play PON signals
- Visible Fault Locator fast locates defective connectors, macrobends, patch cords and patch cord panels
- Optical Connector Inspector checks connector and fiber termination for polish quality and cleanliness

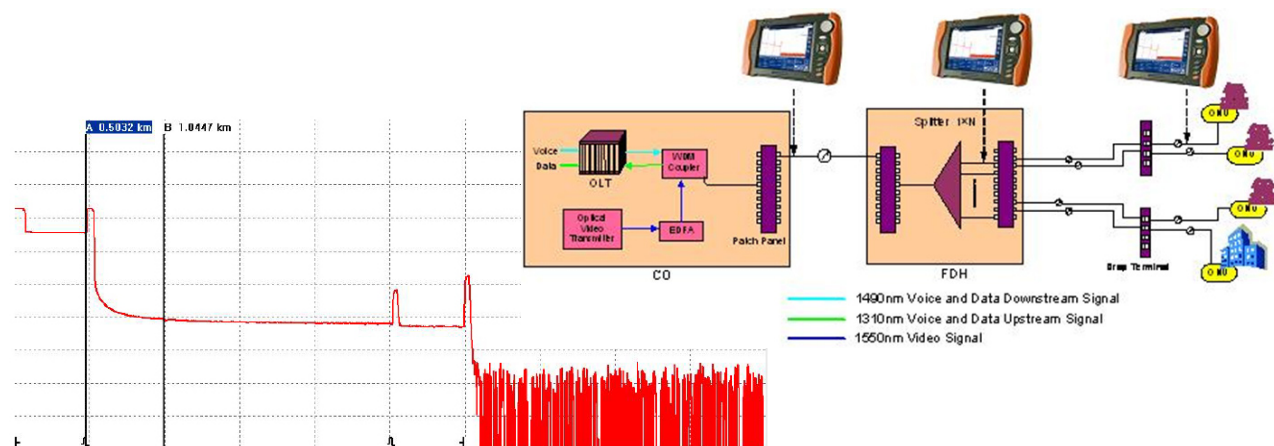


- Lightweight
- 8.4 inch touch screen
- Excellent Man-Machine interface for easy operation
- Damp-dust-shock proof
- Knob and touchpen combination: Fast and easy handling
- Optimised power management: 7 hours continuous operation
- Fast power up with Windows CE



Flexible Test in PON Architecture

MTP-1000 can perform real-time test anywhere in the network for FTTx/PON installation, activation and maintenance. The OTDR Module can test through the splitter and find the fibre end



Testing through splitter, events after splitter and fiber end are identifiable

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OTDR Module

- Multiple modules available for flexible configuration
- FTTx applicable
- Value-added Visible Fault Locator
- GR-196-CORE (.SOR) file format
- JPG file format

Trace Manager Software

- Multi trace comparison
- Single/multi trace printing
- Batch editing and printing
- Bidirectional analysis
- CSV/ASCII report formats



Specifications

Platform	
Display	LCD 8.4 inch TFT Touch Screen (800×600 pixels)
Connectivity	USB×2; 10/100Mbit/s RJ-45×1
Memory	2GB
Direct Printer Connection	Yes
Power Supply	Li-Ion Battery/AC Adapter(100-240V, 50-60Hz), Battery Status Indication
Battery Life	6 hours continuous operation
Operating Temperature	0°C ~50°C
Storage Temperature	-20°C ~70°C
Humidity	0 ~95%(non-condensing)
Weight	2.1kg (Platform only)
Dimensions (H×W×T)	320×190×70mm (Platform only)



OTDR Module

OTDR Module	Wavelength (±20nm)	Dynamic Range (dB)	Event Deadzone(m)	Attenuation Deadzone(m)
MOT200-20VD	1310/1550	45/43	7	12
MOT200-30VC	1310/1490/1550	38/37/37	1.5	12
MOT200-31VC	1310/1550/1625	38/37/37	1.5	12
MOT200-32VC	1310/1383/1550	38/37/37	1.5	12
MOT200-40VC	850/1300/1310/1550	18/22/38/37	7/1.5	20/12
MOT200-41VC	1310/1490/1550/1625	38/37/37/37	1.5	12
Selectable Range	1.3, 2.5, 5, 10, 20, 40, 80, 160, 240Km			
Pulse Width	5ns, 10ns, 30ns, 100ns, 300ns, 1µs, 2.5µs, 10µs, 20µs			
Averaging Time	Quick, 15s, 30s, 45s, 60s, 90s, 120s, 180s			
Emitter Type	LD			
Connector	FC (Interchangeable SC, ST), UPC/APC			
Distance Measure Accuracy	±(1m + 5×10 ⁻⁵ ×distance + sampling space)			
Attenuation Detect Accuracy	±0.05 dB/dB			
Reflection Detect Accuracy	±4 dB			
Visible Laser Source	Output Power ≥ -3dBm; MOD Frequency: 1Hz; Detecting Range: 5Km			

MCI100 Optical Connector Inspection Module

Field of View	400µm x 300µm
Resolution	≤ 1.5µm
Focus	Manual
Probe Dimensions	32mm Dia x 175mm

MPN200 PON Power Meter Module

CAL Wavelengths	1310nm	1490nm	1550nm
Measurement Range	-40 ~ +10dBm	-40 ~ +12dBm	-40 ~ +25dBm
Power Uncertainty	≤ 0.5dB		
Accuracy	0.01dB		
Insertion Loss	≤ 1.5dB		

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