

OTM2800 SYNCHRONISATION ANALYSER TEST MODULE

OTM2800 Synchronisation Analyser is specially designed for conducting clock synchronisation of PTN or Packet Ethernet, which is developed and manufactured by OPWILL. It is developed in accordance with IEEE1588v2, SYNC-E, 1PPS+ToD, Ethernet, and E1 such standards, provides a complete clock synchronisation test solution for operators. This module is compatible with OTP6200v2 (OPWILL Intelligent Network Test Platform).

Feature

- Support 1588v2, SYNC-E, 1PPS+ToD, and TDM;
- Integrated a rubidium atomic GPS clock, which can keep GPS time signal for 2 hours, beneficial for some situation where is inconvenient for setting GPS antenna;
- Support to reproduce UTC time and clock with high precision;
- Support to test IEEE1588v2 time server, IP RAN/PTN/OTN/xPON infrastructures, and BS time synchronisation precision and performance;
- Support 1PPS+ToD, IEEE1588v2 PTP and SYNC-E mask and slave emulation testing;
- Support ESMC simulation and analysis, which is in accordance with ITU-T G.8264 standard;
- Support to conduct 7X24 continuous test to analyse drift performance in a long term situation for time and clock synchronisation;
- Support to calculate MTIE, TDEV;
- Support 1 Gbit/s data stream in maximum;
- Support RFC2544, includes Throughput, Frame Loss, Latency, and Back-to-Back;
- Support Y.1564 test.



Application

- Network planning test;
- Synchronisation service open, maintain, and troubleshoot;
- PTN network performance test.

PRODUCT TABLE

OPTICAL COMMUNICATION TEST INSTRUMENTS

NO.	Name	Mode	Description
1	Handheld OTDR	FTS505	Pad, Dual Wavelength 1310/1550nm OTDR Tester, Dynamic Range 30/28dB.
2	Handheld OTDR	FTS510L	Pad, Dual Wavelength 1310/1550nm OTDR Tester, Dynamic Range 32/30dB.
3	Handheld OTDR	FTS510N	Pad, Dual Wavelength 1310/1550nm OTDR Tester, Dynamic Range 35/33dB.
4	Handheld OTDR	OTP6123H	Dual Wavelength 1310/1550nm OTDR Tester, Dynamic Range 40/39dB.
5	Handheld OTDR	OTP6123N	Dual Wavelength 1310/1550nm OTDR Tester, Dynamic Range 35/34dB.
6	Handheld OTDR	OTP6123L	Dual Wavelength 1310/1550nm OTDR Tester, Dynamic Range 30/28dB.
7	Handheld PON OTDR	OTP6123P	Triple Wavelength 1310/1550/1625nm PON OTDR Tester, Dynamic Range 39/37/38dB.
8	Handheld PON OTDR	OTP6123-a	Triple Wavelength 1310/1490/1550nm PON OTDR Tester, Dynamic Range 39/37/37dB.
9	Handheld PON OTDR	OTP6123-c	Four Wavelength 1310/1490/1550/1625nm PON OTDR Tester, Dynamic Range 39/37/37/38dB.
10	Card OTDR	OTC2300H-a	Single Wavelength 1310nm Card OTDR, Dynamic Range 38dB.
11	Card OTDR	OTC2300H-b	Single Wavelength 1490nm Card OTDR, Dynamic Range 38dB.
12	Card OTDR	OTC2300H-c	Single Wavelength 1550nm Card OTDR, Dynamic Range 38dB.
13	Card OTDR	OTC2300H-d	Single Wavelength 1625nm Card OTDR, Dynamic Range 38dB.
14	Card OTDR	OTC2300N-a	Single Wavelength 1310nm Card OTDR, Dynamic Range 35dB.
15	Card OTDR	OTC2300N-b	Single Wavelength 1490nm Card OTDR, Dynamic Range 35dB.
16	Card OTDR	OTC2300N-c	Single Wavelength 1550nm Card OTDR, Dynamic Range 35dB.
17	Card OTDR	OTC2300N-d	Single Wavelength 1625nm Card OTDR, Dynamic Range 35dB.
18	Card OTDR	OTC2300L-a	Single Wavelength 1310nm Card OTDR, Dynamic Range 30dB.
19	Card OTDR	OTC2300L-b	Single Wavelength 1490nm Card OTDR, Dynamic Range 30dB.
20	Card OTDR	OTC2300L-c	Single Wavelength 1550nm Card OTDR, Dynamic Range 30dB.
21	Card OTDR	OTC2300L-d	Single Wavelength 1625nm Card OTDR, Dynamic Range 30dB.

TRANSMISSION AND METRO ETHERNET TEST INSTRUMENTS

NO.	Name	Mode	Description
1	Ethernet Tester	OTP6126	Handheld Dual Optical and Electrical Dual Port 1G Ethernet Tester.
2	Ethernet Tester	OTM2602	Modular Dual Optical and Electrical Dual Port 1G Ethernet Tester.
3	Ethernet Tester	OTM2610	Modular 10G Ethernet Tester.
4	Transmission Analyser	OTM2515	PDH/SDH Test: <ul style="list-style-type: none"> • E1/E3/E4/STM-1 Electrical port; • STM-1 Optical Port. DS _n /SONET Test: <ul style="list-style-type: none"> • DS1/DS3/OC-3 Electrical port; • OC-3 Optical Port.
5	Transmission Analyser	OTM2516	PDH/SDH Test: <ul style="list-style-type: none"> • E1/E3/E4/STM-1 Electrical port; • STM-1 Optical Port. DS _n /SONET Test: <ul style="list-style-type: none"> • DS1/DS3/OC-3 Electrical port; • OC-3/12 Optical Port.
6	Transmission Analyser	OTM2517	PDH/SDH Test: <ul style="list-style-type: none"> • E1/E3/E4/STM-1 Electrical port; • STM-1/4/16 Optical Port. DS _n /SONET Test: <ul style="list-style-type: none"> • DS1/DS3/OC-3 Electrical port; • OC-3/12/48 Optical Port.
7	10G Multi-Service Tester	OTM2502	PDH/SDH Test: <ul style="list-style-type: none"> • E1/E3/E4/STM-1 Electrical port; • STM-1/4/16/64 Optical Port. DS _n /SONET Test: <ul style="list-style-type: none"> • DS1/DS3/OC-3 Electrical port; • OC-3/12/48/64 Optical Port. 10M to 10G: <ul style="list-style-type: none"> • BERT, Frame Analysis, RFC2544, Y.1564.
8	10G Multi-Service Tester	OTM2512	PDH/SDH Test: <ul style="list-style-type: none"> • E1/E3/E4/STM-1 Electrical port; • STM-1/4/16/64 Optical Port. DS _n /SONET Test: <ul style="list-style-type: none"> • DS1/DS3/OC-3 Electrical port; • OC-3/12/48/64 Optical Port. OTN: <ul style="list-style-type: none"> • OTU1/OTU2, OTU1e/OTU2e. 10M to 10G: <ul style="list-style-type: none"> • BERT, Frame Analysis, RFC2544, Y.1564.

NO.	Name	Mode	Description
9	10G Multi-Service Tester	OTM2504	PDH/SDH Test: <ul style="list-style-type: none"> • E1/E3/E4/STM-1 Electrical port; • STM-1/4/16/64 Optical Port. DS _n /SONET Test: <ul style="list-style-type: none"> • DS1/DS3/OC-3 Electrical port; • OC-3/12/48/64 Optical Port. MSTP: <ul style="list-style-type: none"> • GFP,VCAT,LCAS. 10M to 10G: <ul style="list-style-type: none"> • BERT, Frame Analysis, RFC2544, Y.1564.
10	10G Multi-Service Tester	OTM2514	PDH/SDH Test: <ul style="list-style-type: none"> • E1/E3/E4/STM-1 Electrical port; • STM-1/4/16/64 Optical Port. DS _n /SONET Test: <ul style="list-style-type: none"> • DS1/DS3/OC-3 Electrical port; • OC-3/12/48/64 Optical Port. MSTP: <ul style="list-style-type: none"> • GFP,VCAT,LCAS. OTN: <ul style="list-style-type: none"> • OTU1/OTU2,OTU1e/OTU2e. 10M to 10G: <ul style="list-style-type: none"> • BERT, Frame Analysis, RFC2544, Y.1564.
11	100G Tester	OTM2620	100GE: <ul style="list-style-type: none"> • BERT, Frame Analysis, RFC2544, Y.1564, OAM. 100G OTN: <ul style="list-style-type: none"> • OTU4 BERT, SDT.
12	Synchronization Analyser	OTM2800	IEEE1588v2, PTP, SYNC-E, 1PPS+ToD, 1PPS, and TDM Synchronisation Test, GE Packet Network Test, and E1 Test.