Anritsu

Mobile Backhaul Installation and Verification

MT1100A
Network Master Flex

Mobile
Backhaul

Synchronous Ethernet is an essential technology in Mobile Backhaul networks and faults in Synchronous Ethernet seriously jeopardize the performance of mobile networks and can cause system downtime.
Consequently, mobile operators need a test tool to verify the correct functioning of Synchronous Ethernet.
The Synchronous Ethernet test function of the Network Master Flex MT1100A supports comprehensive testing and analysis of both Synchronous Ethernet technologies: SyncE (ITU-T G.826x), and PTP (IEEE 1588 v2).
The user can quickly identify problems at all levels in Synchronous Ethernet, solving issues quickly, reducing system downtime and customer churn, and improving operating expenses for mobile operators.
The MT1100A is ideally suited to supporting the current evolution in Mobile Backhaul networks requiring engineers to test from legacy technologies to 10 Gbps.

The all-in-one MT1100A supports all the latest communications network technologies.
Selecting and installing up to two modules from a range of three module options supports all-in-one R&D, manufacturing, installation and maintenance tests of network and transport equipment operating at bit rates from 1.5 Mbps to 100 Gbps. The large, 12.1-inch color LCD touch panel with easy-to-use GUI plus remote operation of a full range of test functions over an Internet connection greatly improves test efficiency and helps cut costs.

Network Master Flex

Key Platform Benefits and Features:	Key Mobile Backhaul Benefits and Features:

● All-in-one transport tester
  ○ Supports testing from 1.5 Mbps to 100 Gbps
  ○ OTN, Ethernet, CPRI/OBSAI, Fibre Channel,
    SDH/SONET and PDH/DSn
● OTN testing with Ethernet, CPRI, Fibre Channel,
  SDH/SONET client signals
● Easy and intuitive GUI
● Up to 4 ports at all rates
● Electrical interfaces of CAUI, XLAUI using optional extenders
● WLAN*/*Bluetooth*/LAN connectivity
● PDF, CSV and XML report generation for documenting test results
● Remote operation using VNC or dedicated GUI operation software via Ethernet, WLAN
● Remote control (scripting, via Ethernet, WLAN, GPIB)
● Portable design for maximum portability
● Modular platform ensuring maximum return on investment
	● Test and analysis of Synchronous Ethernet: (up to 10 Gbps)
	  ○ SyncE (ITU-T G.826x)
	  ○ PTP (IEEE 1588 v2)
	  ○ G.8265.1 and IEEE 1588 v2 profile for telecommunication
	● Synchronous Ethernet run together with normal Ethernet functions including: (up to 10 Gbps)
	  ○ Ethernet tests at 10 Gbps, 1 Gbps, 100 Mbps and 10 Mbps
	  ○ Ethernet Service Activation Test (Y.1564)
	  ○ Automated RFC 2544 tests of Throughput, Frame Loss, Latency or Packet Jitter, Burstability
	  ○ BER tests – include Frame Loss and Sequence Error tests
	  ○ Service disruption measurements
	● Event log
	● Fiber end face inspection using VIP

∗: Available for certified countries and regions including USA, Canada, Japan and all EU countries.

Easy overview of the IEEE 1588 v2 status

Comprehensive IEEE 1588 v2 statistics

Test Modules:

● 10G Multirate Module MU110010A
  Up to 2 ports: 1.5 Mbps to 10 Gbps (SFP/SFP+, RJ45, BNC, RJ48, Bantam)

∗: MU110010A supports Synchronous Ethernet. (up to 10 Gbps)

● 100G Multirate Module MU110011A
  Single port: 40 Gbps (CFP) or 100 Gbps (CFP)
  Up to 2 ports: 10 Mbps to 40 Gbps (QSFP+, SFP/SFP+, RJ45)

∗: MU110011A supports Synchronous Ethernet. (up to 10 Gbps)

● 40/100G Module MU110012A
  Up to 2 ports: 40 Gbps to 100 Gbps (CXP, QSFP+)

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