



EA^{HD}[™]
Ethernet Analyzer[™]
High Density

The Industry's Highest Port Density 10G Ethernet 1U Test System



Highlights

- Highest port density 10G Ethernet test system (10 ports in 1U x 19 in chassis)
- Field upgradeable, rack-mounted platform with up to five dual port test modules
- All ports can be configured independently and operated simultaneously
- Supports 20 simultaneous users
- All-in-one solution with comprehensive feature set for Ethernet testing
- Every test feature accessible by remote GUI or optional automation scripting
- Intuitive interface with a simple, consistent setup and workflow across all test modules
- Industry proven platform provides efficient and cost effective support and service
- Cloud-based management option for each test module
- OTN, SONET/SDH, and Fibre Channel available as an optional Multi-Protocol Module (MPM)
- 110/240VAC or -48VDC input power options

Benefits

- Most cost-effective solution for Ethernet testing
- Significantly reduces amount of Ethernet test equipment, required footprint, and test time
- One single platform for Ethernet testing which will grow as feature requirements expand, allowing modules to be easily added on-site and new feature capabilities to be downloaded to all test modules

Ethernet Test Module (ETM-10G) (AMC Mid-Size)

All Ethernet/IP rates up to 10G

- 10G LAN, 1G, 100M, and 10/100/1000BASE-T
- Line frequency offset generation and measurement; unframed BERT testing
- Support for up to 32 IPv4/IPv6 test streams with independent addressing, traffic parameters, frame size (up to 16k), pattern, and rate mode
- Y.1564; RFC 2544 Throughput/Latency/Frame Loss/Back to Back Burst Performance Test
- VLAN and MPLS tags up to 4 levels with QoS statistics
- Per-port and per-stream results include: port utilization, counts, packet size distribution, and per stream latency and jitter statistics
- Service Disruption Measurement
- OTN, SONET/SDH, and Fibre Channel available as an optional Multi-Protocol Module (MPM)
- OTU2e/OTU1e, 10G WAN options available

EA^{HD} Platform Specifications

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|----------------------------|--|---|---|---|--|
| Hardware Platform | <ul style="list-style-type: none"> ▪ Compliant to PICMG μTCA Base specification ▪ Shielded steel case with 19" rack mounting brackets ▪ Intelligent Platform Management Interface (IPMI) | Product Provides | μTCA Carrier Hub (MCH) | μProcessor | Other Features |
| Power Supply | <ul style="list-style-type: none"> ▪ Input voltage nominal 90-264 VAC, 50-60 Hz or optional -48VDC ▪ Power Dissipation 400 W max. | <ul style="list-style-type: none"> ▪ 5x Advanced Mezzanine Card (AMC) single mid-size slots for plug-in test modules ▪ 1x μTCA Carrier Hub slot (single full-size) ▪ Active cooling ▪ Hot-swappable cooling unit | <ul style="list-style-type: none"> ▪ Serial Craft Interface over USB ▪ Module and System Status LEDs ▪ Synchronization Inputs ▪ (2x) 10/100/1000 BASE-T ports | <ul style="list-style-type: none"> ▪ Quad Core i7 ▪ (2x) 10/100/1000 BASE-T ports ▪ Status LEDs ▪ Display port ▪ Linux Operating System ▪ Onboard SSD | <ul style="list-style-type: none"> ▪ Simultaneous and independent operation of each module and port ▪ μTCA architecture ▪ Side to side cooling ▪ Built-in mounting options ▪ SFP / SFP+ pluggable optics |
| Physical Dimensions | <ul style="list-style-type: none"> ▪ Height 43.60 mm (1.72 in) (1U) ▪ Width (with brackets) 482.60 mm (19.0 in) ▪ Depth 301 mm (11.85 in) | | | | |
| Weight | <ul style="list-style-type: none"> ▪ 5.9 kg (13 lbs) completely assembled with 5 test modules, MCH, and μProcessor | | | | |
| Environmental | <ul style="list-style-type: none"> ▪ Operating Temperature 0° C to +40° C ▪ Storage Temperature -40° C to +85° C ▪ Humidity +5% to +95%, non-condensing | | | | |
| EMI | <ul style="list-style-type: none"> ▪ Conducted Emissions EN 55022 Class B ▪ Radiated Emissions EN 55022 Class B | | | | |

For more information or a sales quote, visit www.lightwave.com/contact or email sales@lightwave.com

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