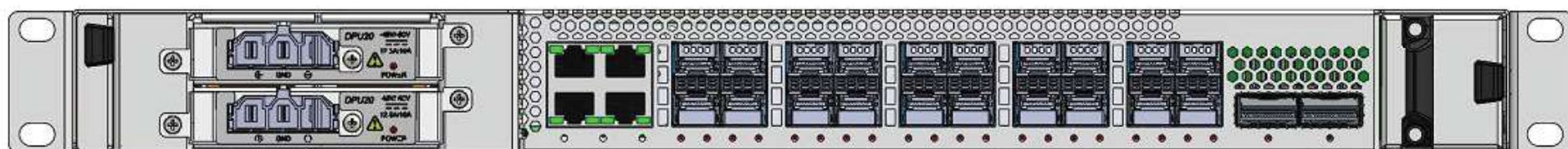
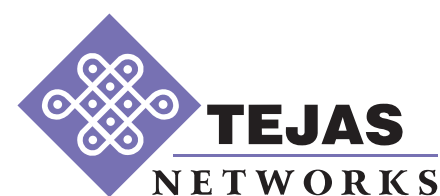


TJ1400-1 C16: 16 Port CPON OLT

UltraConverged Broadband Solutions



Product Highlights

- ✓ 16 port industrial grade multiPON with fully front access
- ✓ Residential, Enterprise, Mobile Backhaul and IoT applications
- ✓ Multi-tenant dwelling with AC / DC Power
- ✓ Enhanced QoS and Multicast for Video.
- ✓ Enhanced Business services with protection

Key Features and Benefits

Ultra Converged Broadband Solutions: It provide the flexibility, performance and investment return required by today's total cost per subscriber business plans. These solutions are capable of delivering Broadband Access via fiber or wirelessly, Business services via dedicated or shared access, and with integrated reliable transport capabilities, they reduce costs immediately, while providing scalability for the future.

Multilevel Protection and QoS: It guards customers against fiber cuts, splitter damage, ONT and OLT port failures. Advanced bandwidth management features assure the highest quality of service for delay/jitter sensitive real time video/voice/data applications.

Carrier class service creation: With a fully managed, end to end solution for FTTH/FTTB services with a complete range of end user ONT devices. These devices come with a diverse set of customer ports such as Fast Ethernet, Gigabit Ethernet, POTS, and WiFi (802.11 n/ac) to address multiple deployment scenarios in the access.

Support Comprehensive OAMP Functions: Support Comprehensive OAMP Functions such as advanced fault, alarm and performance management tools based on standards such as

ITU Y.1731 and IEEE 802.1ag. The tools are complemented by a powerful visual interface for alarm notifications, fault localization and SLA reporting .

Deployment option: TJ1400-1 C16i GPON OLT offers 4x10GE/25GE SFP28 + 2 x 100GE QSFP28 uplink options, plus AC/DC allows deployments in multi tenant units, office closets, and remotes

A Flexible ONT Strategy: This is based upon standards from the Broadband Forum, including an G.988 OMCI along with TR-069's CPE WAN Management Protocol (CWMP) to provide support functions for auto configuration, software or firmware image, software module, status, performance and diagnostics. These are combined with TR-156 architecture and service models, to allow for a multitude of service flexible and service specific ONTS in the Tejas TJ2100 family This extends to multi vendor interoperability when upgrading older networks

Scalable Network Architectures: These are a clear requirement of any broadband service provider to tailor to geographical expansion, uptake increases and growth in consumer bandwidth usage

Technical Specifications

GPON Interface Specifications

- Transmission: ITU-T G.984
- Line Rate: D/S, U/S - 2.5/1.2 Gbps
- Connector: SC/UPC
- Wavelength: 1490 nm/1310 nm
- Distance: 20km depending on split ratio

XGSPON Interface Specification

- Transmission: ITU-T G.9807
- Line Rate: D/S, U/S -10/10 Gbps
- Connector: SC/UPC
- Wavelength: 1577, 1270 nm
- Distance: 20km depending on split ratio
- Class N1 and N2 optics support

Network Uplinks

- 4x10GE/25GE SFP+
- 2x100GE QSFP28

L2 Switching

- IEEE 802.1Q
- Link Aggregation (802.3ad)
- IGMP Snooping v1/v2/v3*
- Broadcast/Multicast storm recovery*

Traffic Policing

- QoS (DSCP/802.1p)
- Open ERPS (ITU G.8032)
- MAC learning, MAC limiting
- DHCP relay Agent with Option-82
- Pluggable SFP for Ethernet ports

Network Protection & Testing

- Link Aggregation Group (LAG)
- Ethernet Ring Protection ITU-T G.8032

Type-B Protection with <1s switching time.

- Port mirroring and loopback

Standards

ITU- T G.984 (GPON), ITU T G. 988, ITU T G.9807

Management

Unified TejNMS based Network Management

Timing/Synchronization

- Stratum 3 Clock, SyncE*
- ToD, 1pps, and 10MHz*
- 1588v2 BC/TC with ToD interface*

Power

- AC or -48V DC
- Maximum Power: 360 Watts
- Redundant, Field Replaceable AC or -48V DC

Environmental

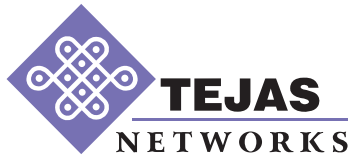
- Operating Temperature: -40°C to 65°C
- Storage Temperature: -40°C to 70°C
- Altitude: 6,000 ft. with max. temperature, 3°C/1000ft. derating afterwards
- Humidity: 5% to 90% non-condensing

Physical Dimensions (H*W*D in mm)

TJ1400-1 C16: 444 (W) x 240 (D) x 44 (H)

Regulatory Standards

IEC / EN 55032, IEC / EN 55035, CISPR32, CISPR35, IEC /EN 62368-1, UL 62368-1, NRTL Listed, FCC Part15, RoHS 6/6 CE, ROHS Compliant ETSI/EN 300386, EN 55022 Class A, FCC Part 15 Class A



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