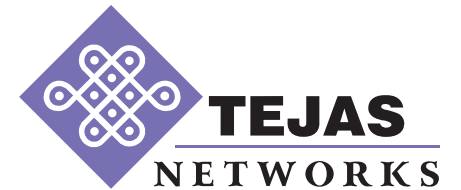


# TJ1400-7E OLT



## Product Highlights

- ✓ Supports GPON, XGSPON, CPON and HSPON Technologies
- ✓ 1400-7E is a 2U OLT with GPON, XGSPON, CPON and HSPON service cards to build modular solutions
- ✓ Supports Residential, Enterprise, Mobile Backhaul and IoT applications
- ✓ Enhanced QoS and Multicast for Video traffic

## Key Features and Benefits

**Ultra Converged Broadband Solutions** 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** 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 (802.11n/ac) to address multiple deployment scenarios in the access.

**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.

## Key Features and Benefits

**A Flexible ONT Strategy** 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** are a clear requirement of any broadband service provider to tailor to geographical expansion, uptake increases and growth in consumer bandwidth usage. Our Ultra- Converged Broadband (UCB) solutions provide scaling from the TJ1400-1 through the TJ1400 18-Slot with 1 Tbs of capacity. With five options, the ability to extended networks as revenue opportunities arise, provide increased redundancy as market requirements change, to fit your real-estate constraints and be "Future Ready. Today" are unequalled.

## Technical Specifications

### GPON Interface Specifications

- Transmission: ITU-T G.984
- Line Rate: D/S, U/S – 2.5/1.2 Gbps
- Connector: SC/APC
- Wavelength: 1490 nm/1310 nm
- Video: 1550 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

### COMBO PON Interface Specification

- Class N1 & B+ optics support in single SFP
- Class N2 & C+ optics support in single SFP

### Network Uplinks

- Gigabit Ethernet
- 10 Gigabit Ethernet

### L2 Switching

- IEEE 802.1Q, IEEE 802.1ad
- IGMP Snooping
- IGMP v1/v2/v3
- Broadcast/Multicast storm recovery
- Traffic Policing
- QoS (DSCP/802.1p)
- ERPS (ITU G.8032)
- MAC learning, MAC limiting
- DHCP relay Agent with Option-82
- Multicast VLAN Registration function
- Pluggable SFP/XFP for Ethernet ports
- L2 classification based on: Source MAC, •Destination MAC, Ethertype, 802.1p priority

### OLT Varinat

- TJ1400-7 : Fully redundant 2U OLT with 32CPON/64GPON/32XGSPON +4x10/25G SNI

### OLT Service Card on TJ1400

- 8x2.5G GPON Cards;
- 16x 2.5G GPON Cards;
- 8 x 10G GPON/XGS-PON Card\*
- 8x 12.5G CPON Card\*
- 1+1 Power, Fabric and Control card Redundancy

Technical Specifications

Node Management

Unified TejNMS based Network Management  
Configurable management VLAN  
WEB based (HTTPS)  
Telnet  
SNMP v1/v2c/v3  
10/100BaseT Management Interface

Synchronization

NTP  
1588v2\*  
Sync E\*

Power & Thermal

AC: 100-240V  
DC: -40 to -60 Volts  
Forced Cooling

Physical Dimensions (H\*W\*D)

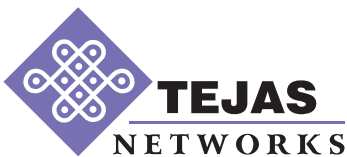
TJ1400-7E 88.55\*448\*235 mm

Environmental

Operating Temperature: -40 °C to 65 °C  
Humidity: 5 to 90% non-condensing

Standards

ITU-T G.984 (GPON)  
ITU-T G.9807 (XGSPON)



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