

TJ1400-7E OLT



DATA SHEET



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.

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

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)

**upcoming release specifications subject to change without notice*



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