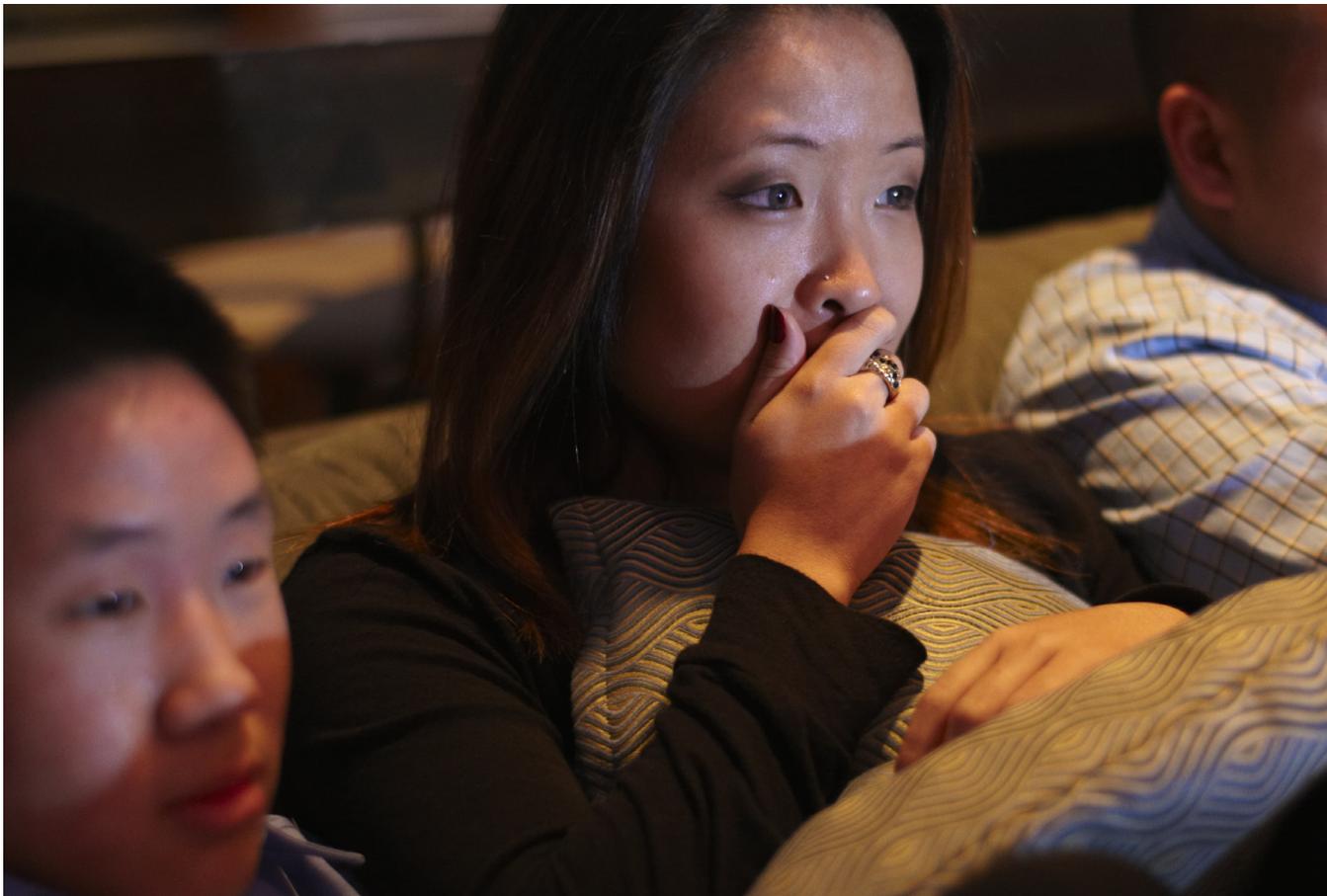# T720G MDU ONU

## T-SERIES 16 OR 24-PORT MDU
## EDA 1500 PORTFOLIO



The T720G is part of the first generation of Ericsson's GPON Multi-Dwelling Unit (MDU) solutions for fiber-to-the-building (FTTB), fiber-to-the-floor (FTTF), and fiber-to-the-business (FTTBiz) applications. The T720G is an advanced indoor ONU designed for greenfield installations and allows cost-effective fiber deployments that allow residential users access to voice services, HD quality entertainment and high-speed Internet services.

Ericsson is shaping the future of Mobile and Broadband Internet communications through its continuous technology leadership.

Providing innovative solutions in more than 140 countries, Ericsson is helping to create the most powerful communication companies in the world.

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# T720G
## INDOOR GPON ONT

### Hi-speed IP Convergence
The T720G offers Quality of Service (QoS) needed for delay-sensitive applications like voice (IP telephony), video conferencing, or video broadcasting.

### VoIP Services
The T720G includes an integrated SIP or H.248 user client for carrier-class voice services.

### Quality of Service
The T720G supports classification, queuing, scheduling, and rate limiting for QoS.

### Virtual LAN (VLAN)
The VLAN technology in the T720G separates traffic types and services as well as improves security. The T720G can support VLAN per port and bridge per port or single bridge.

### IP Multicast
The T720G supports multicast streaming by use of IGMP (Internet Group Management Protocol). The unit supports IGMP snooping and configurable white list per port.

### Management
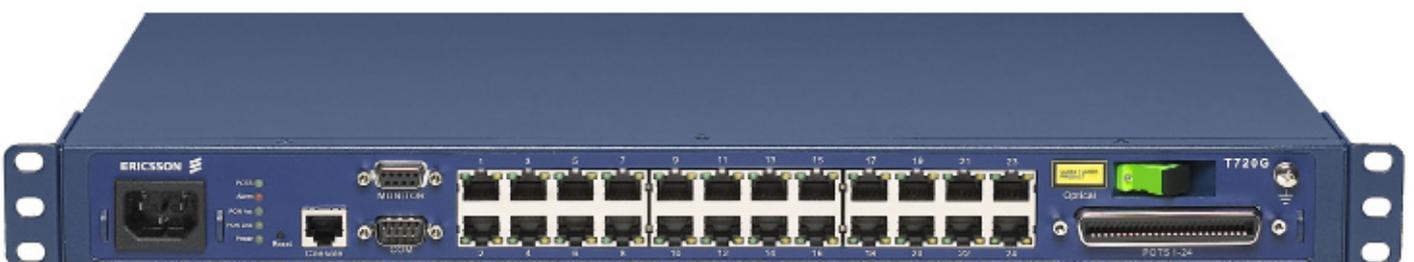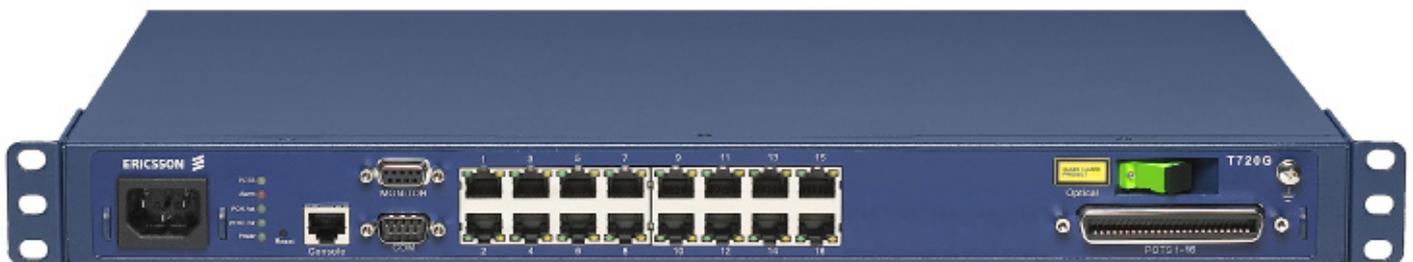The T720G is fully managed by EDA 1500 EMS EntriView™ through OMCI.

### Installation
The T720G has a fanless thermal solution and is ready for 19-inch rack mounting, horizontal and vertical.

### Deployment Flexibility
The T720G models are available in two different port variants, allowing maximum flexibility for different deployment densities. These port combinations include:
- 16 FE, 16 POTS
- 24 FE, 24 POTS

# TECHNICAL SPECIFICATIONS
# T720G

## GENERAL FEATURES

### COMPLIANCE
– ITU-T G.984.1 - GPON General characteristics
– ITU-T G.984.2 - GPON Physical Media Dependent (PMD) layer specification
– ITU-T G.984.3 - GPON Transmission convergence layer specification
– ITU-T G.984.4 - ONT Management and Control Interface (OMCI) specification
– ITU-T G.984.5 - Enhancement band for gigabit capable optical access networks
– ITU-T H.248v2 - Gateway control protocol
– IEEE 802.1D, 802.3i, 802.1p, 802.1Q, 802.3u, 802.3x flow control

### LAYER 2 PROTOCOL
– Ethernet over GPON Encapsulation Method (GEM)
– 8 T-CONTs
– 64 GEM Port ID
– Supports FEC and AES encryption

### NETWORK INTERFACE
– Class B+ GPON optical transceiver
– Optical monitoring

### Throughput
– Line rate at 2488 Mbps downstream and 1244 Mbps upstream

### Transmitter (Upstream)
– DFB laser diode
– Wavelength: 1310 nm ± 20 nm
– Minimum optical transmit power: +0.5 dBm

### Receiver (Downstream)
– APD receiver
– Wavelength: 1490 nm ±10 nm
– Sensitivity: -28 dBm

### IPTV SUPPORT
PON multicast
IGMP v2, v3-ASM, Snooping, Fast Leave
IGMP Snooping

## SUBSCRIBER INTERFACES

### Ethernet Ports
– 16 or 24 10/100/1000Base-T GigE ports with RJ45 connectors
– Ethernet ports are autosensing and autonegotiating
– Management and firmware upgrades through OMCI
– VLAN QoS and T-CONT types 1-5
– 802.1D learning bridge
– 802.1p mapper with classifier, four priority queues per T-CONT
– 802.1Q tag-based VLANs, QinQ or portbased VLANs

### POTS Ports
– 16 or 24 ports with RJ21 female connectors
– Voice Signaling: SIP or H.248
– Call Features: Outgoing, Incoming call, Call waiting, Call transfer, Three-party conference, DTMF in/out band
– Caller ID FSK, DTMF
– Voice CODECs: G.711 µ-law, A-law, G.729A
– G.168 echo cancellation
– T.38 Fax relay

## PHYSICAL SPECIFICATIONS

### Dimensions
HxWxD: 44.5 x 443 x 295 mm
(HxWxD: 1.7 x 17.4 x 11.6 in)

### Weight
3.7 kg (8.1 lb)

### Mounting Options
Rack mounting, horizontal or vertical
All connectors front accessible

### LED Indicators
Power, PON Link, PON Act, Alarm, POTS

### Power Input
100 - 240 VAC / 50-60 Hz

### Power consumption
– Average: 25W
– Peak: Less than 52W

### UPS
RS-232 DB-9 male COM port for AC UPS support

### Alarms
DB-9 female MONITOR port for up to three alarm inputs

## ENVIRONMENTAL

### Operating Temperature
-10°C to +55°C (14°F to 131°F)

### Relative Humidity
10 - 90%, noncondensing

### Atmospheric Pressure
86 - 106 kPa

## REGULATORY APPROVALS & COMPLIANCE

– EMI/EMC: EN 300 386 Class B
– Safety: EN 60950 and IEC 60950 with all national deviations
– RoHS: EU directive 2002/95/EC
– Environmental: ETSI 300 019 series