RESIDENTIAL XGS-PON ONT

i7208
Open Access XGS-PON ONT

BBF.247
XGS-PON CERTIFIED

The Icotera i7208 residential ONT is designed as a long-term XGS-PON termination point in a two-box installation. The ITU-T OMCI standards-compliant provisioning, a vendor-independent approach, and easy installation together with Icotera's focus on design and usability make the i7208 an obvious choice for XGS-PON fiber termination.

• Aesthetic design
• Vendor-independent provisioning and management
• Lowest total cost of ownership
• Designed for long-lifetime installations
• 2.5 Gigabit fiber termination
• BBF.247 certification

Future Proof Solution
The i7208 series is an XGS-PON Layer 2 termination device with a single 2.5 Gbps LAN port. This solution makes it cost-effective for operators to implement two-box installations, as the i7208 is compatible with any Layer 3 device.
The ONT supports securely encrypted and signed FW, environmentally friendly materials, and is certified with the BBF.247 certification, fulfilling the latest test plans developed by the Broadband Forum.

Icotera

i7208 Residential XGS-PON ONT

FEATURES

- Vendor-independent XGS-PON ONT
- Hardware forwarding
- Long-lifetime standard interfaces
- Protocol transparent forwarding

NETWORK COMMUNICATION

PON INTERFACE

- WDM filter that supports CATV and XGS-PON signal coexistence
- ITU-T G.9807.1 compliant
- Wavelength: US 1260 nm - 1280 nm, DS 1575 nm - 1580 nm
- 10 Gbps symmetric line rate
- G.988 compliant
- Forward Error Correction (FEC)
- AES encryption
- Dying gasp
- Class N1 optics

LAN INTERFACE

- 1 x 2.5G LAN
- Auto-negotiation for speed and duplex

LAYER 2

- 64 byte forwarding at line rate
- Jumbo 9k packets
- Forwarding up to 256 MAC addresses
- VLAN QinQ support
- VLAN 802.1ad support
- Transparent IPv6 forwarding
- Multicast support

QoS

- Support DBA in SR and NSR modes
- Support for Strict Priority and Weighted Fair Queuing
- Support for TCONTs 1 - 5
- Support up to 32 T-CONTs
- 8 upstream or downstream queues configurable via OMCI
- Class of service based on VLAN-ID, 802.1p
- Marking and remarking of 802.1p
- Marking and remarking of DSCP/ToS

MANAGEMENT & MONITORING

- Zero-touch configuration with OMCI provisioning
- Dual bank flash memory with fail-safe firmware upgrading
- Hardware watchdog

OPERATIONAL SPECIFICATIONS

- DC 12 V input
- Power consumption maximum: 4.5 W
- Power consumption in idle state: 3.5 W
- Operating temperature: 5°C – 45°C
- Storage temperature: 5°C – 85°C
- Humidity: 5% – 95% (noncondensing)

PHYSICAL SPECIFICATIONS

CASING

- Size: 126 x 130 x 28 mm (W x H x D)
- Weight: 188 g
- Area for an optional PON label with the serial number - 16 x 30 mm on the right side
- Product SN, PON SN, FW version and MAC address label on the bottom side
- PON LED indicator for the connection status
- LAN LED indicator for the link status

FIBER TERMINATIONS

- Wall mountable

INCLUDED IN THE BOX

- Icotera i7208 ONT
- 12 V power supply unit
- 2 labels with the PON serial number

SUPPORTED PLATFORMS

- Nokia ISAM 7330/7360
- Huawei MA5600/5800
- The ONT supports other specific platforms. For more information, contact our Sales department at sales@icotera.com.

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Power **LAN** **PON**

ONT interface configuration

Model	LAN	Termination
i7208-00	1 x 2.5G	Patch

For more information and feature requests, contact our Sales department at sales@icotera.com.