

# GPON ONT

## i520x-20

Residential Open Access ONT

The Icotera i520x-20 residential ONT series is designed as a long-term GPON termination point in a two-box installation. Optional CATV, ITU-T OMCI standards compliant provisioning, a vendor independent approach and easy installation together with Icotera's focus on design and usability, make the i520x-20 an obvious choice for GPON fiber termination.

- Aesthetic design
- Vendor independent provisioning and management
- Lowest Total Cost of Ownership
- Designed for long lifetime installations



### Full Flexibility

Together with the vendor independent provisioning and management, the i520x-20 creates the standards setting for a residential Open Access ONT. The i520x-20 is designed for a common patch installation, where the ONT is mounted directly on the wall.



Patch installation

# i520x-20 Residential Open Access ONT

## FEATURES

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

## NETWORK COMMUNICATION PON INTERFACE

- GPON 2.488/1.244Gbps (DS/US)
- Wavelength: TX: 1310nm, RX: 1490nm
- G.984.1,2,3,4,5 compliant
- G.988 compliant
- Multi-vendor support
- Forward Error Correction (FEC)
- Ethernet GEM support
- AES encryption
- Dying gasp
- Class B+ optics

## LAN INTERFACE

- 1 x 1G 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/Downstream Queues configurable via OMCI
- Class of Service Based on VLAN-ID, 802.1p
- Marking/Remarking of 802.1p
- Marking/Remarking of DSCP/ToS

## CATV (OPTIONAL) OPTICAL PARAMETERS

- Input wavelength: 1550nm - 1560nm
- Operating optical input power: -10dBm - 0dbm
- Optical connector: SC/APC
- WDM filter: present

## RF PARAMETERS

- RF output impedance 75Ω
- Frequency range: 45MHz - 890MHz
- Slope (maximum): 5dB
- RF output level (4% OMI, -8dBm - 0dBm): 80 ± 2dBμV
- CNR ≥ 45dB
- CSO ≥ 60dB
- CTB ≥ 60dB
- Management: via OMCI

## MANAGEMENT & MONITORING

- Zero-touch configuration with OMCI provisioning
- Dual bank firmware w/ fail-safe upgrading
- Hardware watchdog

## OPERATIONAL SPECIFICATIONS

- DC 12V input
- Power consumption maximum: 3.3W
- Power consumption in idle state: 2W
- Operating temperature: 5°C - 45°C
- Storage temperature: 5°C - 85°C
- Humidity: 5% - 95% (non-condensing)

## PHYSICAL SPECIFICATIONS CASING

- Size: 130 x 130 mm (W x H)
- Area for visible PON label right side - 16 x 30 mm for optional PON SN label
- Product SN, PON SN, FW version and MAC address label - ONT bottom
- PON LED - Connection status
- LAN LED - Link status
- CATV LED - Signal status

## FIBER TERMINATIONS

- Wall mountable

## INCLUDED IN THE BOX

- ONT
- 12V PSU adapter
- 2 x label with GPON SN

## SUPPORTED PLATFORMS

- Nokia ISAM 7330/7360
- Huawei MA5600/5800
- ZTE C320
- Other specific platforms supported on a per integrational basis, contact sales for more information.

## i520x-20 Residential GPON ONT Configuration possibilities



### Gateway Interface Configurations:

Model	LAN	CATV	Termination	Size (mm)
<b>i5204-20</b>	1x1G	x	Patch	130x130
<b>i5208-20</b>	1x1G	-	Patch	130x130

NOTE: Please contact Sales for further details on information listed and feature requests.