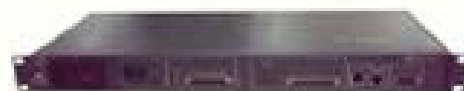


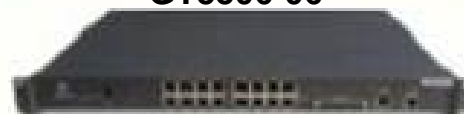
OPTICAL NETWORK UNIT (ONU)

GT5506-06/07/09/10

COST EFFECTIVE MDU Type CUSTOMER PREMISE DEVISE WITH Multiple 16 10/100BASE-T PORTS and FXS PORTS FTTB SOLUTION LOW PROFILE, HIGH DENSITY



GT5506-06



GT5506-07



GT5506-09



GT5506-10

Market Requirement

FTTx (Fiber to the Node) solution helps operators to provide broader bandwidth and more services to the customers. By deploying FTTx, access network is no more bottle-neck and triple play may be integrated from several different networks.

A saving and reliable way of deploying FTTx is applying for PON (Passive Optical Network) technology which has the features of P2MP (Point-to-Multipoint) topology.

Solution/Product Overview

The GT5506-06/07/09/10 GPON Optical Network Unit is an MDU-type of ONU equipment, providing Ethernet and telephone combined interfaces. Targeted at subscribers in residential communities and enterprises, the GT5506-06/07/09/10 GPON offers information, communication and entertainment services, including data, voice and video.

NEC also brings direct experience of operating networks in highly competitive markets. Operational streamlining is achieved by simple point - and - click functions within NEC's fully - featured subscriber and network management system.

Key Features

Extended Availability & Compliance

- Targeting wide range of central-office environments, the system comply to the Latest International ITU-T G.984 series Standards and Related Recommendations

Full Series Types

- By applying different types of MDU ONU, they will satisfy different requirements from different users.

Integrated EMS/NMS platform

- All the FTTx equipments covering GPON/EPON/ NG PON can be managed in Single GTM2000 platform and provide various NBI with NMS.

Ease for Installation & Operation

- 1U rack size for ease installation, and auto- discovery & activation by OLT

Technical Summary

HARDWARE

GPON Interface

- Optical Fiber: G.652/G.657 Single Mode Fiber
- Connector: SC/PC
- Upstream / Downstream data rate: 1.244/ 2.488 Gbps
- Maximum Reach: 20 km
- Maximum Split ratio: 64
- Wavelength: TX 1310nm / RX 1490nm, (RF 1550nm)
- Average mean launch power (maximum): +5 dBm
- Average mean launch power (minimum): +0.5 dBm
- Minimum receiver sensitivity: -27 dBm

POWER SUPPLY

- DC -48V or AC 220V
- Backup Battery Capacity: 2 to 8 hours

ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: -10°C to +55° C
- Relative Humidity: 10% to 90% non condensing
- Storage Temperature: -30 to +65 ° C

ADVANCED FEATURES

LAYER 2 SWITCHING FUNCTIONS

- STP/RSTP
- IEEE802.1Q VLAN in tag or untag mode
- 4k VLAN per ONU
- 8K MAC addresses
- Port mirroring / trunking

VoIP

- Protocols: H.248, MGCP, SIP
- Coding: G.711a/u, G.723, G.729

MULTICAST

- IGMPv2 Snooping

PRODUCT TYPE

	GT5506-06	GT5506-07	GT5506-09	GT5506-10
Dimensions (W x D x H mm)	440 x 190 x 44.5	440 x 190 x 44.5	440 x 190 x 44.5	440 x 190 x 44.5
Chassis weight (Full loaded)	4 kg	4 kg	3 kg	4 kg
Service Interface	16FE 4E1	16FE (16POTS)	8FE (8POTS)	24FE (24POTS)
Uplink Interface	1 or 2 GPON	1 or 2 GPON	1 or 2 GPON	1 or 2 GPON
Power Consumption (Full configured)	< 32W	< 38W	< 28W	< 46W



Safety Precautions

★ Before installing, connection or using this product, be sure to carefully read and observe the cautionary and prohibited matters provided in the instruction manual.

- The company names and product names given in this catalog are trademarks or registered trademarks of the respective companies.
- The configuration or specifications are subject to change without prior notice due to continual improvements.

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For inquiries, contact :

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QUALITY OF SERVICE (QoS)

- IEEE 802.1 p compliant 8 CoS queuing
- Classification based on port, MAC address, and VLAN ID and Priority re-tagging
- SP, WRR and SP + WRR congestion management

SECURITY

- MAC address filtering / binding
- IP address filtering
- ACL
- AES 128 bit Encryption
- Anti DoS Attack Features

MANAGEMENT

- GUI and CLI Remote management through OLT
- ITU-T G.984.4 OMCI
- ONU Remote Firmware Upgrad

Standard Compliance

- ITU-T G.983.1/G.983.4/G.983.5 Standard
- ITU-T G.984 Series Standard
- IEEE 802.3u 100M Fast Ethernet Standard
- IEEE 802.3z Gigabit Ethernet Standard
- IEEE 802.3x Port Stream Control Standard
- IEEE 802.1d MAC bridging
- IEEE 802.1p Priority Standard
- IEEE 802.1q VLAN Protocol
- IEEE 802.1ad Q-in-Q
- IEEE802.11b/g/n
- IETF SIP/ H.248
- ITU-T G.723 Voice Standard
- ITU-T G.729 Arithmetic
- IETF RFC 2236 Internet Group Management Protocol v2

Application Scenario

- Support FTTB (Fiber to the Building) solution
- Mobile Backhaul