1 Gigabit Ethernet

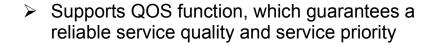## ONT 970/1GE
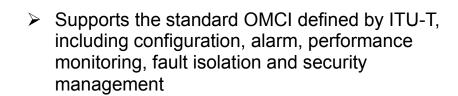
Passive Optical Network Terminal

➢ Including VLAN, STP, port isolation, ACL, QoS and Broadcast Storm Control

➢ Supports DBA and Rate-Limit

➢ Supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to share 2.5Gbps bandwidth resource appropriately

➢ Supports QOS function, which guarantees a reliable service quality and service priority

➢ Supports the standard OMCI defined by ITU-T, including configuration, alarm, performance monitoring, fault isolation and security management

TAINET's ONT 970/1GE is a GPON-technology-based gateway ONT designed for home and SOHO (small office and home office) users. It is designed with one optical interface which is compliant with ITU-T G984.X and ITU-T G.988 standards.

The fiber access provides high-speed data channels and meets FTTH requirements, which can provide enough bandwidth supports for a variety of emerging network services. It supports the PON transmission rate of downlink 2.5Gbp/ uplink 1.25Gbps. Connected with TAINET OLTs, it can realize 1:128 splitting ratio. The covering radius of the network can reach to 20km.

ONT 970/1GE – Optical Network Terminal
- ONT 970/1GE: 1*Gigabit Ethernet

PON Interface
- Downlink 2.5Gbps / Uplink 1.25Gbps
- Network covering radius: 20km
- Type of optical interface: SC/UPC
- Hi-sensible optical receiver: $\leqslant$ - 27dBm
- Radiation power: 0.5 ~ 5dBm
- Security: ONU authentication mechanism

Standards
- ITU-T G.984/G.988
- IEEE 802.1D Spanning Tree
- IEEE 802.1Q VLAN
- IEEE 802.1w RSTP
- ITU-T Y.1291

VLAN
- Port based VLAN
- IEEE 802.1Q VLAN

Multicast
- IGMP Snooping
- MLD-Snooping

QoS
- Backpressure flow control (half duplex)
- IEEE 802.3x flow control (full duplex)
- Head of Line (HOL) mechanism
- IEEE 802.1p CoS
- Four priority queues on each port
- WR SP and FIFO
- Port rate limit

Reliability
- Loop detection
- Dying - Gasp

Security
- Limitation to the number of MAC addresses on the port
- Port protection
- Port storm control
-

Management
- CLI, Web, SNMP and Telnet
- Software upgrade through TFTP and Web
- Local syslog or server syslog
-

Dimensions
- 105(W) x 75(D) x 26(H) mm
-

Heat Dissipation
- Supports long-time use
- The device running hot will not affect the performance or cause break down
-

Operating Environment
- Operating temperature: 0℃ ~ 45℃; 10% ~ 85% non-condensation
- Storage temperature: -40℃ ~ 80℃; 5% ~ 95% non-condensation
-

Power Supply
- DC 12V / 0.5A (external adaptor power supply)
-

Power Consumption
- < 6W