

QNTO

Optical Metropolitan Ethernet Terminal

QNTO is an optical Metropolitan Ethernet termination VPN layer 2. It is installed at the customer premises and provides an E1 (2,048 Mbit/s G703) TDM service and 2 Ethernet 100BTx access.

The E1 connection may render the following services :

- PABX interconnection
- ATM / Frame Relay interconnection
- ISDN Primary rate Interface connection
- Any other type of interface connection using G.703

Fast Ethernet access can provide :

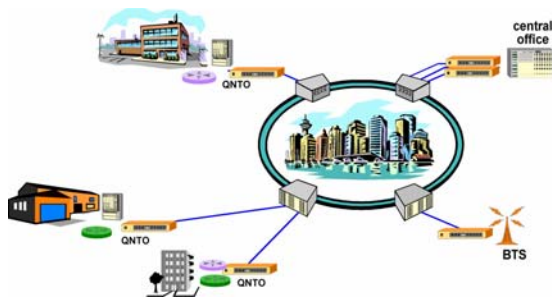
- VPN IP service
- VLAN interconnection
- Best effort access

The product offers :

- The operator to propose new services
- The customer to interconnect distant sites

Metropolitan Ethernet Networks

Metropolitan Ethernet Networks are optical cable loops interconnected by Gigabit Ethernet switches. Customer access are realized with Ethernet 10/100 BaseTx interfaces.



Loops are presently using 1,25 Gbit/s, 2,5 Gbit/s and 10 Gbit/s Ethernet interfaces.

Ethernet Networks advantages

Metropolitan Ethernet Networks are developed to provide services at substantially lower costs than presently widely deployed technologies such as SDH. Bandwidth on demand is a vital competitive feature of those networks.



Advantages

- Voice integration without compression
- Full services package (voice + data)
- Carrier class (loops, QoS, alarms)
- Double network connection for backup
- Switch time to backup less than 50ms
- Option backup on user port
- Makes use of physical layer 2 (Tunneling)
- Bandwidth controlled by 32k step

Operator Advantages

This product provides operators with full services (voice + data) package integrating a leased line service at a very attractive cost for a 2,048 Mbit/s. It gives the operator a tool to survey the quality of its services, as well as a maintenance tool such as looping and quality measurement statistics.

Customer Advantages

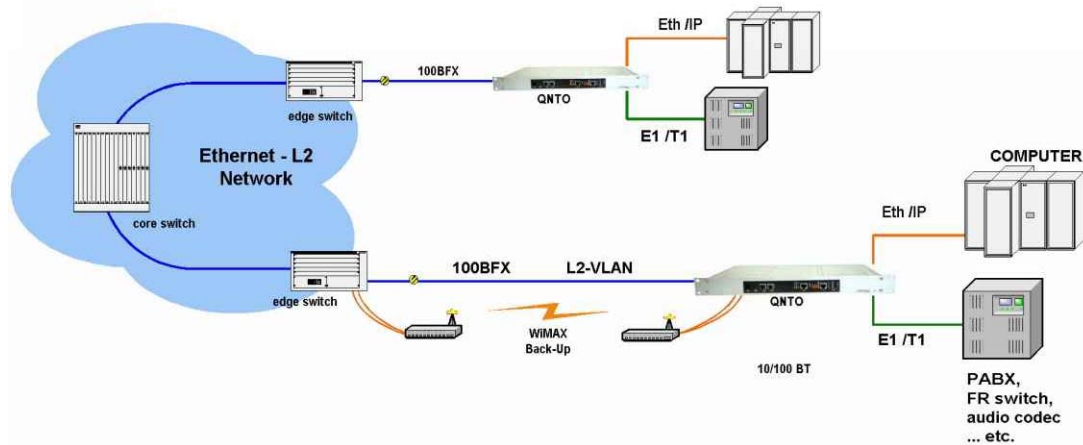
The product allows a customer to lease an Ethernet service VPN-Level 2 in order to interconnect IP & synchronous services.

References Models

- 20010** : 1 x MMF - WAN, 3 x 10/100BT users
- 23010** : 2 x MMF - WAN, 2 x 10/100BT users
- 24010** : 1 x SMF - WAN, 3 x 10/100BT users
- 25010** : 2 x SMF - WAN, 2x 10/100BT users

Case Study :

User sites are connected to High speed Metropolitan Networks for supervised data and telephony services.



Advantages :

- The operator can provide data and voice services using Ethernet access network
- The customer can use this equipment within his premises to carry voice services over the internal IT Ethernet cabling network.

Technical Data :

Network interface

Optical Ethernet : single mode / multimode
 distance : depending on module from 2 to 10 km
 option back up : double connection to WAN
 switch time : less than 50ms, automatic return
 802.1Q / 802.1P compliant

User interfaces

E1 x1 : 2,048Mbit/s (+/- 50ppm)
 Network equivalent stability : 0,05 ppm
 Distance : 500 m
 Connector: RJ 45
 Mode : framed/unframed
 Fractional E1 : n x 64k
 Complies with: CCITT G703, G732, G.821, G.823, G.704
 Option T1 at 1,54Mbit/s

Ethernet x 2-3 : 10/100BaseTx
 Bandwidth control by 32k step

Network Manager

- Web browser QView integrated (service activation, loops, alarms, quality control counters)
- SNMPv1 (MIB-II)
- LED indicator's on equipment front

SAFETY

EN 60950, EN 55022

Surrounding

Operating temperature : 0°C-40°C, RH 5%-95% no condensation
 Storage temperature : -40°C-70°C RH 5%-95% no condensation

Power supply

110 / 220V AC, 40W, 50-60 Hz
 -48V DC, 40W

DIMENSIONS

480(L) x 230 (W)x45(H) mm, Weight : 800gr

PRODUCTS RANGE

| 01/03/06 | Modèle | Réf. | dispo. | WAN Interfaces | | | | | USER Interfaces | | | | | | |
|----------|------------|---------|--------|----------------|---------------------|------------|----------------|------------------|-----------------|----------|-----|---------|----------------|-----------|------------|
| | | | | 10BT | 100Bfx smf / mmf | Back Up | TDM over IP | TDM over VLAN | E1/T1 | 10/100BT | X21 | V24/V28 | V24 / RS232 | Pt Mpt | Mpt Mpt |
| | QNTUE1 | 10010 | Y | Y | - | - | Y | Y | 1 | - | - | - | - | - | - |
| | QNTUE1V24 | 10011 | Y | Y | - | - | - | Y | 1 | - | - | 1 | - | - | - |
| | QNTU2E1V24 | 10211 | Y | Y | - | - | - | Y | 2 | - | - | - | 1 | - | 2 |
| | QNT0 | 2.-.010 | o3/06 | opt. | Y | opt. | - | Y | 1 | 2-3 | - | - | - | - | - |
| | PSPE1 | 33010 | Y | Y | - | - | opt. | Y | 1 | - | - | - | - | - | - |
| | PSPE1S | 33110 | Y | Y | - | - | - | Y | 1 | - | - | - | - | 4 | - |
| | PSPE1S | 34110 | Y | Y | - | - | - | Y | 1 | - | - | - | - | - | 4 |
| | PSPV24 | 34010 | o2/06 | Y | - | - | opt. | Y | - | - | - | 1 | - | - | - |
| | PSPX21 | 35010 | o2/06 | Y | - | - | opt. | Y | - | - | 1 | - | - | - | - |

Photo subject to change