GENEXIS

Element NT
Point-to-Point Series

Element-NT Network Terminator

The Hybrid product family marks the embodiment of a new vision for FTTH. It separates the service layer from the network layer, resulting in a modular, cost-effective and flexible home gateway solution matching all types of FTTH networks. The Element-NT network terminator provides a managed demarcation point for the operator's network.

Based on a full Gigabit interface, it translates the optical signal into tangible services through the click-on Live! residential gateway, and up to two devices connected via standard RJ45 connectors.
The Element-NT series is designed for Point-to-Point Ethernet networks.

Features

- » Cost-effective network terminator
- » Supports Gigabit and 100Mbps fiber uplinks
- » Provides Ethernet connectivity for up to three devices
- » Powers Universe-CATV & Hybrid Live!
- » Management via SNMP, DHCP/TFTP or GAPS
- » Optional Element Masque to cover Element, moothens the design and enables customer branding
- » Fully compatible with all Hybrid Live! service modules, through the Hybrid Interface
- » Direct wall-mounting optional

Network demarcation

The Element-NT forms a cost-effective managed network demarcation point. It offers termination of the FTTH transport layer and multiple paths to the service layer. Services can be activated by simply connecting a Hybrid Live! module, or connecting a residential gateway or other devices via standard Ethernet interfaces.

Element NT - Point-to-Point Series

Features & Specifications

General specifications

- Dimensions (H x W x D)   223x104x45mm
- Weight   200 g
- Power supply voltage   12 Vdc ± 10%
- Operating conditions   0 - 40 ℃
- Storage conditions   0 - 70 ℃

LAN interface

- 2x 1000/100/10Base-T RJ45 Interfaces

WAN interface

- Compliant with IEEE 802.3 Clause 59 1000BASE-BX10-U)
- Compatible with IEEE 802.3 Clause 58 (100BASE-BX10-U)
- Single mode fibre (ITU-T G.652)
- SC/PC connector
- Full duplex transmission
- TX 1310 nm
- RX 1480 - 1580 nm
- 10 km range
- > 12 dB power budget
- Class 1 laser product
- Transmit power   -3 ... -9 dBm
- Receive power   -3 ... -21 dBm

CATV control

- Powering for Universe-CATV unit
- Remotely enable CATV
- Remote monitoring of CATV input signal

Hybrid interface

- Gigabit Ethernet electrical interface
- Supports any Hybrid Live! module

Layer 2 features

- Wirespeed forwarding
- Managed Quality of Service
- Port enable
- External per port rate shaping and limiting
- Up to 64 VLANs
- Q-in-Q
- Link state forwarding

Emission and safety regulations

- CE, FCC approved
- Safety:
  - IEC EN 60950
  - IEC EN 60825-1:2001-08
- Emissions & Immunity:
  - EN 55022/CISPR 22:2008, Class B
  - EN 55024
- RoHS/WEEE marking:

Compliant with 2002/95/EC **Management**

- Genexis Automatic Provisioning System (GAPS)
- Passive IEEE802.3ah operation
- SNMP statistics
- DHCP/TFTP
- IEEE 802.3ah OAM in passive mode:
- Discovery
- Loopback
- Fault notification (dying gasp)

Status LEDs

- Power
- Fiber uplink status
- CATV status

Element NT Point-to-Point Series product models

Model	WAN Fibre (Mbps)	Hybrid Interface Slots	LAN Interfaces	Universe CATV Power
Element-P1132	100/1000	1x	2x	yes