GENEXIS

Live! Titanium

Residential Gateway

The Hybrid product family is 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 Live! Titanium residential gateway is the flagship of the Hybrid product line. It blends design, high-end technology and user-friendliness into one product. The Live! Titanium offers a wide range of state-of-the-art functionality, including Gigabit up- and downlink, Gigabit routing performance, telephony, auto-switching, WLAN, USB and more.

Features

» Powerful triple-play residential gateway

» High-speed router with 4 managed Ethernet ports, 1 Gbps each

» Two telephony lines (SIP-based VoIP)

» Wireless LAN (IEEE 802.11b/g/n)

» USB 2.0 port

» IPv4 and IPv6 concurrently supported

» Management via TR-069 or GAPS (Genexis Automatic Provisioning System)

» Hybrid Interface compatibility

» Sophisticated design enabling intuitive customer self-installation

Best in class residential gateway

The Live! Titanium Residential Gateway offers best-in-class routing capabilities. It combines ultra-high-speed performance with sophisticated Residential Gateway features. Installation is a simple 'click-on' action, and the user-friendly interface enables straightforward configuration.

Hybrid Interface compatibility

The Live! Titanium Residential Gateway is fully compatible with the Element network termination module, through the specially developed Hybrid Interface. The Hybrid Interface enables the end-user to 'click-on' and activate the Live! service module with just one simple interaction. It is easy and cost-efficient: no need for an installer to place or replace the Live! Residential Gateway

Support

Offering our customers excellent service is one of our key values. We provide ongoing support via software updates for existing features and introduce new functionality on a regular basis. In this way your Live! Residential Gateway is always up-to-date and ready for the ever-changing demands of your end-customers.

Product features & specifications
Live! Titanium

General specifications

- » Dimensions (H x W x D)
  - – stand-alone   241x104x56mm
  - – incl. Universe and Element
        241x104x75mm
- » Weight   250 g
- » Power supply   12 Vdc ± 10% (provided via Element)
- » Power dissipation (incl. voice, WLAN)   8 W
- » Operating temperature   0 - 40 ℃
- » Storage temperature   0 - 70 ℃

WAN interfaces

- » Hybrid Interface (Gigabit) compatible with any Hybrid Element module

USB interface

- » 1 port USB 2.0

Voice ports

- » SIP based Voice-over-IP
- » G.711 A-law / μ-law codec
- » G.729 codec
- » 5 REN support
- » Line Echo Cancellation
- » DTMF transmission: in-band, RFC2833, SIP info
- » Configurable dial plan
- » Caller ID: FSK, DTMF
- » Adaptive jitter buffer
- » Modem / Fax pass-through
- » Call hold
- » Call waiting
- » 3-Party conference

IEEE 802.11n wireless interface

- » IEEE 802.11b/g/n (2.4 GHz) 2T2R
- » Automatic channel selection
- » Internal antennas
- » WEP, WPA, WPA2
- » WPS button for simple WLAN network setup
- » Multiple SSIDs supported
- » Dual concurrent radio: 2.4 GHz and 5.0 GHz (optional)

Auto-switching

- » Additional support for 100Mbps WAN interface (in combination with the Element-P1012)
- » Enables mixed 100Mbps / 1Gbps networks
- » Ensures network migration from 100Mbps to 1Gbps without changing active equipment

Router WAN interface

- » VLAN-separated triple play
- » DHCP-client
- » PPPoE-client
- » IPv6 6rd
- » IPv4/IPv6 dual stack

LAN Interfaces

- » 4 User data (LAN) ports RJ-45
- » Compliant with IEEE 802.3 Clause 40 10/100/1000BASE-T)
- » LED indicators for link and activity
- » Auto-negotiating speed, duplex, MDI/ MDIX
- » MTU size 1518 bytes

Router LAN interfaces

- » End user management via web interface
- » Factory default reset button
- » Line-speed (1000 Mbps) routing performance for packets:
  - – Titanium-2x: > 512 bytes
  - – Titanium-4x: > 256 bytes
- » DHCP server
- » NAT / PAT
- » UPnP
- » VPN pass-through
- » Firewall
- » DMZ
- » Mixed bridged/routed port(s) for IPTV
- » IGMPv2, IGMPv3

Management and control

- » TR-069, TR-098, TR-104
- » GAPS
- » SNMP
- » DHCP / TFTP
- » CLI
- » Fail-safe firmware upgrade
- » CATV control

Buttons

Titanium-2x

| RST | Reset button |
| WPS | WPS button |

Titanium-4x

| RST | Reset button |
| WPS | WPS button |

Status LEDs

‹›	Data uplink / power
☏	Telephony status
📶	WLAN status
@	Routing status

Live! Titanium product models

Model	WAN		LAN		VoIP	WLAN		USB
	Auto-switching	Ports	Speed (Mbps)		POTS ports	2.4 GHz	5.0 GHz	2.0
Titanium-22	yes	4x	1000/100/10		2x	-	-	1x
Titanium-24	yes	4x	1000/100/10		2x	yes	-	1x
Titanium-48	yes	4x	1000/100/10		2x	yes	yes	1x