



Platinum

7000-Series

Desktop residential gateway

The Platinum desktop residential gateway is a standalone triple-play router from the Genexis portfolio. It blends design, high-end technology and user-friendliness into one product. The Platinum offers powerful Residential Gateway functionality including Gigabit speed routing and concurrent dual band WLAN for optimal internet experience, technology for IPTV and Video on Demand delivery and telephony.

Feature highlights

- » High-speed router with 4 managed Gigabit Ethernet ports
- » WLAN Access Point (2.4GHz 11b/g/n & 5.0GHz 11a/n/ac, concurrent dual band)
- » WAN flexibility: RJ45 & MSA-compliant SFP receptacle combined or fixed fiber (SFF) and optical CATV input
- » Two telephony ports (SIP-based VoIP)
- » Flexible management via TR-069, CLI, DHCP/TFTP, SNMP or/and GAPS (Genexis Automatic Provisioning System)
- » Operator controlled, end-user friendly HTTP(S) GUI
- » IPv4 and IPv6 supported concurrently
- » Support Jumbo frames (up to 9K)
- » Support for Q-in-Q

The Platinum is available with two types of WAN interfaces. This allows the RG to be used both in a standalone scenario and as a 'two-box' solution where it is connected to a third party or any Genexis fiber optic Point-to-Point and GPON network termination products such as the FiberTwist.

Best-in-class residential gateway

The Platinum Residential Gateway offers flexible triple play service delivery and best-in-class routing capabilities. It combines ultra high-speed performance with sophisticated Residential Gateway features. At the same time, installation is simple and the user-friendly interface enables straightforward configuration.

Choose your type of uplink

The Platinum enables a broad spectrum of end-user installation scenarios by supporting various uplink types. The Residential Gateway is available either with a combo port of RJ-45 and SFP receptacle or with a fixed fiber (SFF) and CATV.

Product features & specifications

Platinum 7000-Series

General specifications

- » Dimensions (H x W x D) 34x206x204 mm
- » Weight approx. 440 g
- » Power supply voltage 12 Vdc ± 10%
- » Power consumption typ. 8 W
- » Operating conditions 0 - 40 °C
- » Storage condition 0 - 70 °C

WAN interface

Choice of:

- » Combo port (1000/100/10Base-T RJ-45 + SFP receptacle) *
- » SFF (fixed fiber) interface and CATV *

SFF interface

- » Tx wavelength 1310 nm
- » Rx wavelength 1490/1550 nm
- » Optical output range -9 ... -3 dBm
- » Optical input range -23 ... -3 dBm
- » Single mode fiber (ITU-T G.652)
- » SC/PC connector
- » Compliant with 100BASE-BX-U
- » Compliant with 1000BASE-BX-U
- » Auto sensing 1Gb/s and 100Mb/s

SFP interface

- » Supports MSA-compliant SFPs (INF-8074i)
- » Supports DDM (SFF-8472 Rev 9.4+)
- » Operates at 1000Base-X or 100Base-FX dependent upon SFP capabilities

Protocols

- » IPv4/IPv6 dual stack concurrent
- » DHCP (v4/v6) client
- » PPPoE client
- » QoS
- » 802.1ad (Q-in-Q)

LAN interfaces

- » 4x 1000/100/10Base-T LAN ports (RJ-45)
- » LED indicators for link and activity

Routing

- » Line-speed (1000 Mbps) routing performance for packets > 256 byte.
- » DHCP server / DNS proxy
- » NAT / PAT
- » Routing without NAT / PAT
- » UPnP
- » VPN pass-through
- » SPI Firewall
- » DMZ and port forwarding/translation
- » Mixed bridged/routed port(s) for IPTV
- » IGMPv2 snooping and proxy
- » RTSP proxy for Video on Demand (VoD)

IEEE 802.11n / ac wireless interface

- » IEEE 802.11b/g/n (2.4GHz) 2T2R
- » IEEE 802.11a/n/ac (5.0 GHz) 3T3R
- » Automatic channel selection
- » Internal antennas
- » WPA, WPA2
- » WPS button for simple WLAN network setup
- » Multiple SSIDs supported

Voice ports

- » SIP based Voice-over-IP
- » G.711 A-law / μ -law codec
- » G.729 codec
- » 5 REN support
- » Line Echo Cancellation
- » DTMF: In-band, RFC2833, SIP-Info

CATV *

- » Wavelength 1550 nm
- » Optical input range 0 ... -10 dBm
- » Frequency range 47-875 MHz
- » RF output impedance 75 Ω
- » Output return loss 14 dB
- » RF output level (AGC) 86 ± 2 dB μ V
- » Flatness ± 1 dB
- » SC/APC connector
- » Optical input power measurement
- » RF output power measurement







Buttons & USB:

- » Reset button (recessed)
- » WPS button
- » 1x USB 2.0

Management and control

- » TR-069, TR-181, TR-104
- » Genexis Automatic Provisioning System (GAPS)
- » SNMP
- » DHCP / TFTP
- » CLI
- » Fail-safe firmware upgrade
- » End user management via web interface
- » Reset button for factory default settings

Status LEDs

-  Power
-  Fiber uplink status/activity
-  Connectivity status
-  Telephony status
-  WiFi status
-  CATV status *

* Applicable to selected models only

Platinum product models

Model	Uplink type	LAN		VoIP	WLAN 2x2	WLAN 3x3	USB	CATV
		Ports	Speed (Mbps)	POTS ports	2.4 GHz	5.0 GHz		
Platinum-7840	SFP + RJ-45	4x	1000/100/10	2x	11n	11ac	1x	-
Platinum-7880	SFF + CATV	4x	1000/100/10	2x	11n	11ac	1x	yes

Specifications may differ from those listed. Please contact sales@genexis.eu for further information.