

## DRG700 DRG7000

Rock-solid all-in-one gateway



The DRG700 / 7000 is an easy-to-install high-performance home gateway for Fiber-to-the-Home (FTTH) networks. Packed with features to support triple-play services, including high-definition TV services and optionally CATV support, the DRG700 / 7000 is the ultimate home gateway for fiber

networks. With its four Gigabit LAN ports and the ability to reach up to Gigabit wire-speed packet routing, the DRG700 / 7000 is designed for residential customers, small offices and medium size businesses.

### Features

- » Easy installation on the DRG Fiber Termination Unit
- » Four Gigabit LAN ports and one USB 2.0 port
- » WAN auto-sensing 100BASE-FX and 1000BASE-X
- » WLAN Access Point (2.4GHz 11b/g/n and 5GHz 11a/n/ac, concurrent dual band, optional)
- » Two telephony ports for SIP based Voice-over-IP
- » Remotely managed CATV (optional)
- » Manageable via GAPS, TR-069, CLI, DHCP/TFTP or SNMP
- » Gigabit speed firewall and NAT routing
- » IPv4 and IPv6 supported concurrently, including IPv4 and IPv6 transition support\*
- » Support Jumbo frames (up to 9K\*)

\*Depends on the product

### Up to a full gigabit

The DRG700 / 7000 WAN is multi-rate supporting 100Mbit/s and 1Gbit/s speeds on the optical interface. The DRG automatically detects the used link speed. Therefore, the network operator can deploy the Gigabit capable DRG700 / 7000 in a mixed speed network today and be ready for next generation access. If the network gets upgraded to 1Gbit/s, there would be no need to revisit the customer and change the home gateway.

### VoIP and WLAN

The DRG700 / 7000 is available in multiple variants which support POTS telephony with a built-in SIP Voice-over-IP client. The WLAN access point supports up to 750Mbit/s TCP throughput wireless communication, which gives customers access to the network anywhere in the home without having to build a wired network.

# Product features & specifications

## DRG700 / DRG7000

### General specifications

- » Dimensions 170x202x48mm
- » Weight approx 450 g
- » Power supply 12 Vdc ± 10%
- » Power consumption typ. 8 W
- » Operating Temperature 0 - 40 °C
- » Storage temperature 0 - 70 °C

### USB & Buttons

- » Reset button (recessed)
- » WPS button
- » 1 USB 2.0
- » Power switch (DRG7000)

### WAN interface

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

### Upstream protocols

- » IPv4/IPv6 dual stack
- » DHCP(v4/v6) client
- » PPPoE client
- » IPv6 6rd
- » DS-Lite

### LAN interfaces

- » 4 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
- » UPnP
- » VPN pass-through
- » SPI Firewall
- » DMZ and port forwarding/translation
- » Mixed bridged/routed port(s) for IPTV
- » IGMP(v2/v3) snooping and proxy
- » RTSP proxy for Video on Demand (VoD)

### IEEE 802.11n/ac wireless interface

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

### Voice ports

- » SIP based Voice-over-IP
- » G.711 A-law / μ-law coded
- » G.729 codec
- » 5 REN support
- » Line Echo Cancellation
- » DTMF: in-band, RFC2833, SIP-info
- » Class 5 features






### CATV

- » Wavelength 1550 nm
- » Optical input range -8 ... 0 dBm
- » Frequency range 47-875 MHz
- » RF output impedance 75Ω
- » Output return loss 14dB
- » RF output level (AGC) 80 ± 2 dBμV
- » Flatness ± 1 dB
- » Optical input power measurement
- » RF output power measurement
- » Various filter options

### Management and control

- » TR-069, TR-104
- » TR-098 (DRG700)
- » TR-181 (DRG7000)
- » 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
-  Telephony status
-  WiFi status
-  CATV status (not all models)

## DRG 700 product models

Model	LAN		VoIP	WLAN 2x2		WLAN 3x3	USB	CATV
	Ports	Speed (Mbps)	POTS ports	2.4 GHz	5.0 GHz	5.0 GHz	2.0	
DRG736v2	4x	1000/100/10	2x	11n	11ac	-	1x	yes
DRG739v2	4x	1000/100/10	2x	11n	11ac	-	1x	-

## DRG 7000 product models \*

Model	LAN		VoIP	WLAN 2x2		WLAN 3x3	USB	CATV
	Ports	Speed (Mbps)	POTS ports	2.4 GHz	5.0 GHz	5.0 GHz	2.0	
DRG7820	4x	1000/100/10	2x	11n	-	11ac	1x	-
DRG7860	4x	1000/100/10	2x	11n	-	11ac	1x	yes
DRG7870	4x	1000/100/10	2x	11n	-	11ac	1x	yes (Denmark specific)
DRG7880	4x	1000/100/10	2x	11n	-	11ac	1x	yes (multi-dwelling)

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