



DRG 500 series

DRG 560 products

The DRG System gives operators and service providers a reliable home gateway platform to support multiple broadband services with enhanced security and high quality standards.

The DRG

The DRG 560 (Digital Residential Gateway) is a Triple Play platform providing up to 1 Gbps WAN access, and 8 LAN ports with 100 Mbps. DRG 560 is designed for residential customers, small offices and medium size enterprises taking advantage of the multiple LAN ports and high through-put.

Multiple Broadband Services

DRG supports Triple Play services such as fast Internet access, IP telephony and IPTV. CATV is optionally supported with a CATV receiver which converts optical TV signals received via the fibre network into traditional electrical RF signal.

An integrated serial port offers more possible means of communication for services like telemetry and security.

High Quality Services

DRG 560 enables carrier grade video quality through priority mechanisms both on Ethernet and IP levels. DRG 560 supports IGMP snooping, which routes a multicast video stream only to LAN ports that have joined the multicast group. This prevents unnecessary traffic on other ports.

Efficient Remote Management

The DRG 560 is designed for remote management including remote configuration and software upgrade mechanism. This allows the operator to easily and efficiently manage and control a vast number of installed units.

In addition the DRG 560 provides quality measurement for LAN ports. The produced statistics can be gathered allowing the operator to monitor and control the quality of the offered services.

Cost Efficient Click On Deployment

The FTU provides the network builders a solution for terminating fiber access in a cost efficient and robust manner. Once the installation of the FTU and corresponding fiber connectors is done the end customers can install the active equipment themselves by simply click on the DRG unit. No special skills or patch cables are needed.

The Choice of FTTX Networks

The DRG 560 can be used in fiber and copper networks and is very well suited to the particular requirements of FTTX networks.

Product Specification for DRG 560

Interfaces

Model	Port	Wavelength TX/RX (nm)	Max/Min output pwr (dBm)	Max/Min input pwr (dBm)	Speed (Mbps)	Specification
DRG 561					10/100/1000	Copper, UTP, Cat5, RJ-45
DRG 562m		1310/(1270-1380)	-14/-22.5	-14/-31.8	100	Multi-mode, dual-fiber, MT-RJ
DRG 562s		1310/(1260-1610)	-14/-23.5	0/-31	100	Multi-mode, dual-fiber, SC
DRG 566s	WAN	1310/1550	-8/-14	0/-31	100	Single-mode, single-fiber, SC
DRG 566Gs		1310/1550	-3/-9	-3/-21	1000	Single-mode, single-fiber, SC
DRG 567c		1310/(1260-1610)	-8/-15	0/-34	100	Single-mode, dual-fiber, LC
DRG 567s		1310/(1260-1610)	-8/-15	0/-34	100	Single-mode, dual-fiber, SC
DRG 567Gs		1310/(1260-1610)	-3/-9.5	-3/-20	1000	Single-mode, dual-fiber, SC
DRG 56x*	LAN				10/100	8 x Copper, UTP, Cat5, RJ-45
DRG 56x*	Other				N/A	Serial port RS232, RJ-11

* x can be either 1, 2, 6 or 7

Management

SNMP management	SNMP v1, SNMP v2, MIB-II for statistics, Enterprise-specific DRG MIB for configuration
HTTP server	Two access levels for manual configuration, can be turned on/off remotely
TFTP/HTTP client	Software download
DHCP	Configuration support
HDD	Pre-integrated with 42Networks Element Management System, HDD, that allows optimal management of large populations of DRG units

Quality of Service

DiffServ	Layer 3 (IP) QoS mechanism, 4 hardware queues for prioritization
Class of Service	IEEE 802.1p, Layer 2 (Ethernet) QoS mechanism, 4 hardware queues for prioritization
LAN port priority	4 hardware queues
Bandwidth shaping	Rate limitation per LAN port
IGMP snooping	IGMP v1, IGMP v2

Traffic Classification and Security

VLAN	Services and port separation
VLAN stacking (Q-in-Q)	Service provider tagging
Hybrid links	Tagged and untagged traffic simultaneously on the same link

Reliability

MTBF	>150 000 hours
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Physical

Dimensions	56 mm (D) x 170 mm (H) x 238 mm (W)
Weight	Approximately 430 g
Power requirements (incl. AC/DC adapter)	7,5-10,5 watts
Power supply	12Vdc, external plug-in wall adapter, UPS optional
LED indicators	WAN, LAN per port, POTS per port, POWER
Operating conditions	Temperature 0°C to +40°C, humidity 5-95% RH non-condensing

Regulatory Compliance

CE-mark
ETL-mark
FCC Part 15 Subpart B
CB-mark
IEC/EN/UL 60950, IEC/EN/UL 60825, ETSI EN 300386
RoHS directive 2002/95/EC
WEEE directive 2002/96/EC