DG150 Residential Gateway

Dual WAN RGW with VoIP and Wireless 802.11n

The DG150 is a dual WAN RGW with advanced router and bridge functions. DG150 features one ADSL2+ WAN, One GbE WAN, four LAN ports, one FXS port and Wireless 802.11n.



- Supports ADSL2+ (Annex A, M, B)
- One integrated Gigabit Ethernet WAN port
- Optional one integrated Gigabit Ethernet LAN port
- Four integrated Fast Ethernet ports
- 802.11b/g/n 2x2 WiFi supports up to 300 Mbps transmission rate
- Secure transmitting encryption by either 802.1x;
 WEP; WEP2; WPA; WPA2; TKIP; AES; 802.11i

- One FXS port for VoIP, optional PSTN voice reinjection
- Supports Networking protocols such as PPP, NAT, Routing, DHCP server / relay / client
- Configuration and management by Web-browser through the Ethernet interface and remotely through WAN interface
- Remote management via IUP/HTTP / TFTP / SNMP/ TR-069





Specifications, hardware

LAN Interfaces

- One 10/100/1000 Ethernet port RJ-45 connector.
- Four 10/100 Ethernet ports RJ-45 connector.
- Integrated 802.11b/g/n 2x2 Wireless Access Point with internal antennas.

WAN Interface (xDSL)

- 2-wire loop with 100 ohms lineimpedance in RJ-11 connector
- G.994 compliant
- G.992.1 (G.dmt) Annex A, B,and C compliant

- G.992.2 (G.lite) Annex A andC compliant
- ANSI T1.413 compliant G.992.3 (ADSL2) compliant, supportingAnnex A, B, C, L and M
- G.992.5 (ADSL2+) compliant, sup porting Annex A, B, C and M
- G.INP
- Supports PhyR (Physical Retransmission)

Analog Voice Interface

• 1FXS port with RJ-11 connectors for analog phone set connection

Environment

- Operation Temperature: 0°C ~ 45°C
- Operation Humidity: 5% ~ 95% (non-condensing)
- Storage Temperature: -20°C ~ +85°C
- Storage Humidity: 5% ~ 95% (non-condensing)

Power

- AC adapter : Input 120 VAC/60Hz or230VAC/50Hz; Output 12VDC 1,5 A
- Power consumption: Less than 15 watts
- \bullet Physical Dimensions 220 mm \times 169 mm \times 42 mm (W \times D \times H)

Specifications, software

ATM

- AALO, AAL5, OAM, RM and Transparentcell types
- Traffic shaper/scheduler: priorityscheduling; per-VCC queuing;UBR/CBR/VBR shaping based onPeak Cell Rate(PCR),
 SustainedCell Rate (SCR), and Maximum Burst Tolerance; Minimum Cell Rate Shaping;Multi-priority AAL Queuing
- Full 24-bit Virtual Port Identifier (VPI)/ Virtual Circuit Identifier (VCI) support
- 16 Virtual Channel Connections (VCCs)
- Payload Encapsulation:
- RFC2684 / RFC1483, MultiprotocolEncapsulation over ATM AdaptationLayer 5
- RFC2225 / RFC1577, Classical IPand ARP over ATM (IPoA)
- RFC2364, PPP over AAL5 (PPPoA)

Bridging

- RFC2684 / RFC1483 bridged PDU encapsulation
- Transparent bridging (IEEE 802.1D)
- Bridge filtering with per-port extensions

Routing

- RFC2684 / RFC1483 bridged androuted PDU encapsulations
- MAC Encapsulated Routing (MER)
- Supports Point-to-Point Protocol(including PPPoA and PPPoE) anduser authentication via PAP, CHAPor MS-CHAP
- Routing Information Protocol (RIP)v1 and v2, static route
- DHCP client, server and relay agent
- NAT / PAT RFC1631 with supportfor extensive ALGs
- DNS Proxy

Firewall

- NAT: Fullcone, DMZ and ALGs
- Stateful Packet Inspection (SPI) withDOS protection Ping of Death,SYN Flood LAND
- Protection against IP and MACaddress spoofing
- UPnP NAT traversal and VPN /IPSec pass-through

Wireless

- Supports 802.1x; WEP; WEP2; WPA; WPA2; TKIP; AES; 802.11i
- Hidden SSID
- WMM for advanced Quality of Service
- AES in hardware
- 300 High Speed Mode: Standardsplusperformance enhancement deliversbest real-world performance as theclient card use the same 300 High Speed Mode

Voice

- Supports voice CODECs likeG.711, G.726, G.729AB, G722,T.38 etc
- G.168 line echo cancellation withprogrammable tail
- Adaptive jitter buffer, packet lossconcealment (PLC), voice activitydetection (VAD), comfort noisegeneration (CNG) and Caller ID
- •DTMF tone detection and generation;Fax / Modem detection andpass-through

VoIP and Telephony Bonus Services

- Supports SIP (RFC3261), SDP(RFC2327, RFC3264) as well as bothTCP and UDP transport
- Supports User Agent Client (UAC)- User Agent Server (UAS) call, or proxycall routing
- Supports SIP and telephone URL addressing

- Supports in-band DTMF tone sending / receiving and out-band DTMF signalingwith RTP, as per RFC2833
- Bonus services include:
- Call Forwarding: Unconditional, No Response, On Busy
- Call Waiting: Force Busy, Pickup andRelease
 Old, Pickup and Put Old onHold, Switch
 between two calls
- Call Transfer, Call Back busysubscriber, Call Back last numbercalled (call return)
- Enquiry service
- Three way conference

Configuration and Network Management

- SNMP GETs, SETs and TRAPs for fourgroups in MIB-II
- Embedded syslog; SNTP with DHCPoptions
- UPnP Internet Gateway Device (IGD) compliance
- Management and configuration via Web/ HTTP
- Firmware upgrade using IUP/ HTTP / TFTP / TR-069
- Supports TR-069, TR-098, TR-104management and provisioning

Physical Dimensions

• TBD 218 ×138 × 43 (W × D × H)

Note: Not every listed feature will be included in the shipping product. We reserve the right to make changes of technical specifications, housing or design without prior notice.



