

DSL7000GRV(S) - AZTECH ADSL 2+ WIRELESS-N 2 FXS 4-PORT GATEWAY WITH USB 2.0 HOST

- PRODUCT SPECIFICATIONS -



DSL7000GRV(S)

1.0 OVERVIEW.

The Aztech **DSL7000GRV(S)** is an integrated access device, which supports ADSL2/2+, 802.11b/g/n 2T2R wireless, 4-Port Gigabit Ethernet switch, 1-Port Gigabit WAN port for fiber ONT, Voice-over-IP and USB 2.0 Host. This Aztech next generation gateway supports ITU G.992.3 (ADSL2), G.992.5 (ADSL2+) and RE-ADSL Ready; and it has a solid interoperability performance with various brands of DSLAM. Aztech DSL7000GRV(S) also supports Annex M standard, which support up to 3Mbps on the uplink.

The Aztech DSL7000GRV(S) is able to deliver low cost calls through the broadband, up to 2 simultaneous calls could be handled at the same time with full population of FXS ports. Additional feature PSTN backup keeps the telephone line alive without AC power.

Targeted at providing good quality and high definition IPTV services to end users, Aztech DSL7000GRV(S) Residential Gateway is an intelligent 4 port 10/100/1000 Auto MDI/MDIX Managed Switch. Security is provided via a double SPI (Stateful Packet Inspection) and Full Cone NAT support firewall. Hardware accelerated AES/WEP/WPA/WPA2 based encryption/MAC Address Filtering for Wireless links. Multiple session VPN Pass-through and DMZ support provide additional security support for telecommuters as well as allow flexibility while maintaining security against malicious hackers. Choices of Dynamic DNS



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Server gives users the flexibility of hosting a web or an FTP server with various domain names.

Aztech DSL7000GRV(S) supports IEEE 802.11b/g/n high-power wireless and USB 2.0 Host port for printing and file sharing applications.

Aztech DSL7000GRV(S) could function as a Broadband Home Router by connecting the 1000Mbps Ethernet WAN port with an ONT. It extends the fast fiber connection to the house. It also supports multiple-VLAN management for delivering triple play services.

2.0 MAIN FEATURES.

ADSL/ATM Support

- ❑ ANSI T1.413 issue 2, ITU-T G.992.1 (G.dmt) and G.992.2 (G.lite) compliant
- ❑ ITU-T G.992.1 (G.dmt Annex B) Population Option
- ❑ ADSL2 (G.992.3), ADSL2+ (G.992.5), RE-ADSL Compliant
- ❑ ADSL2+ Annex M Support
- ❑ ATM Layer with Traffic shaping QoS Support (UBR, CBR, VBR-rt, VBR-nrt)
- ❑ AAL ATM Attributes – AAL5
- ❑ Multiple PVC support up to 8
- ❑ Spectral compatibility with POTS
- ❑ F4/F5 OAM Loopback/Send and Receive
- ❑ TR-068

Voice Support

- ❑ SIP Version 2.0 (RFC3261, RFC3262, RFC3263, RFC3264)
- ❑ MGCP Support
- ❑ Analog phone, Fax machine and DECT handsets
- ❑ RTP/RTCP (RFC1889 & RFC1890)
- ❑ Jitter Buffer (Adaptive)
- ❑ G.711 Annex1/2, G.729AB, G.723.1A, G.726 support
- ❑ Bellcore, FSK, DTMF caller ID detection/generation
- ❑ TIA-777-A Caller Identity and Visual Message Waiting Indicator Equipment Performance Requirements
- ❑ QoS Support TOS/Diff-serv
- ❑ V.21, V.27ter, V.29, V.17 Fax Relay
- ❑ T.38U Fax over IP protocol (optional)
- ❑ Comfort Noise Generation, Silence Suppression, 32ms Echo Cancellation G.168-2005
- ❑ DTMF Tone Generation/Detection, DTMF In-Band and Outband RFC2833
- ❑ Re-registration with a SIP Proxy primary server
- ❑ Telephony Features : CallerID, Call Waiting, Message Waiting, Three Way Conference call (Depends on IP Telephony Service Provider)
- ❑ SIP Extensions



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- REN 3 support up to three phones in parallel
- SRTP user privacy protection
- TLS (Transport Layer Security)
- 2 Simultaneous Voice over IP calls
- Codec iLBC (internet Low-Bit-rate Codec) and codec GSM AMR (Adaptive Multi-Rate)

Encapsulation Support

- RFC2684 Bridge and Routed LLC and VC Mux support
- RFC2364 PPPoA Client
- RFC2516 PPPoE Client
- RFC2225/RFC1577 Classical IP Support
- Transparent Bridge Support
- PAP/CHAP for Password Authentication

Network Support

- Static IP, Dynamic RIP v1/v2 routing
- IP/TCP/UDP/ICMP/ARP Application
- Full Cone NAT (Network Address Translation)
- PVC to VLAN Mapping
- Port Forwarding/Triggering
- Easy setup of Port Forwarding rules for popular Games/Application
- Easy Connect Support ensuring that user need not change any PC settings
- NAT Application Level Gateway for popular applications
- Multi NAT (future release)
- DHCP Server/Relay/client
- DNS Relay Agent
- DMZ (demilitarized zone)
- Multiple Session IP Sec and PPTP/L2TP VPN pass through support
- PPP Always on
- PPP Dial on Demand with configurable timeout
- Universal Plug and Play Support
- DDNS (Dynamic DNS) Support
- IGMP v1, v2, v3; IGMP Snooping support in Bridge mode
- SNTP
- SNMP
- QoS Support (DSCP, TOS), including Diff-serv, IEE802.1p – Priority bit, IEEE802.1q – VLAN triggering
- PPP/DHCP Auto Detection (future release)
- Set-Top Box Pass Through

WAN Support

- Dedicated 1000Mbps Ethernet WAN Port to connect with an ONT (Optical Network Terminal) in FTTH (Fiber To The Home)
- External RJ45 connector, 10/100/1000Base-T Ethernet (Auto MDI/MDIX)



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- ❑ Multiple VLAN support for triple play services

WLAN Support

- ❑ IEEE 802.11b/g/n standard compliant
- ❑ 2T2R Mode with 300Mbps PHY rate for both Transmit and Receiving
- ❑ 20MHz/40MHz bandwidth
- ❑ Seamless WLAN roaming
- ❑ Frequency Band :
 - 2412 MHz - 2462 MHz (North America/FCC)
 - 2412 MHz - 2472 MHz (ETSI/Europe)
 - 2412 MHz - 2484 MHz (Japan)
 - 2457 MHz - 2472 MHz (France)
 - 2457 MHz – 2462 MHz (Spain)
- ❑ Support Direct Sequence Spread Spectrum (DSSS) technology
- ❑ Modulation : OFDM with BPSK, PBCC, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK
- ❑ Wireless Media Access Protocol- CSMA/CA with ACK
- ❑ Dynamic Rate Scaling from 54, 48, 36, 24, 12, 11, 9, 6, 5.5, 2, 1 Mb/s
- ❑ Security: WEP Encryption 64/128Bit, WPA/WPA2, 802.1x RADIUS authentication encryption
- ❑ MAC Filtering
- ❑ WiFi Protected Setup Feature
- ❑ Dynamic Rate Scaling from 54, 48, 36, 24, 12, 11, 9, 6, 5.5, 2, 1Mbps
- ❑ Operating Range up to 300 Meters (Outdoor)
- ❑ Multiple SSID support (up to 4)
- ❑ WMM support

Management Support

- ❑ Web Based HTTP management GUI
- ❑ TFTP/FTP Support for Firmware Upgrade
- ❑ Web Based Firmware Upgrade (Local)
- ❑ Soft Factory Reset Button via Web GUI
- ❑ Diagnostic Test (DSL, OAM(ADSL), Network(ADSL), Ping Test)
- ❑ TR068 – WAN Access
- ❑ Telnet with CLI (Read and Write) configuration
- ❑ Syslog Support
- ❑ Firmware upgrade-able for future feature enhancement
- ❑ TR-069, TR-064
- ❑ SNMP v1 and v2
- ❑ SSH Support

Security Support

- ❑ NAT for basic Firewall support
- ❑ Packet Filtering Firewall Support
- ❑ Stateful Packet Inspection Support



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- URL Filtering (optional)
- Protection against Denial of Service attacks
- Password Authentication to Modem
- Real-Time Attack and Alert Logs (optional)

2.1 HARDWARE

- Broadcom BCM6361V (Processor)
- Broadcom BCM6302 (Line Driver)
- Broadcom BCM53125S (7-Ports Gigabit Ethernet Switch)
- 802.11b/g/n miniPCI wireless module
 - SiGe SE2605L PA
 - RFMD RF2374 LNA
- Legerity Le88266TQC (SLIC)
- 32 MB NAND Flash ROM
- 64 MB DDR2 SDRAM
- Dying Gasp Support (option)
- ITU K.21 Support

2.2 PLATFORM SUPPORT

For Ethernet and Wireless LAN

- OS Independent

USB Host Application Support (option)

- Printing
- Charging through USB port
- File sharing through Harddisk (FAT or FAT32 format only)

2.3 POWER REQUIREMENTS

- Input Voltage : 12VDC
- Input Current : 1.5~2.0A

3.0 PHYSICAL SPECIFICATIONS

LED Indicators :

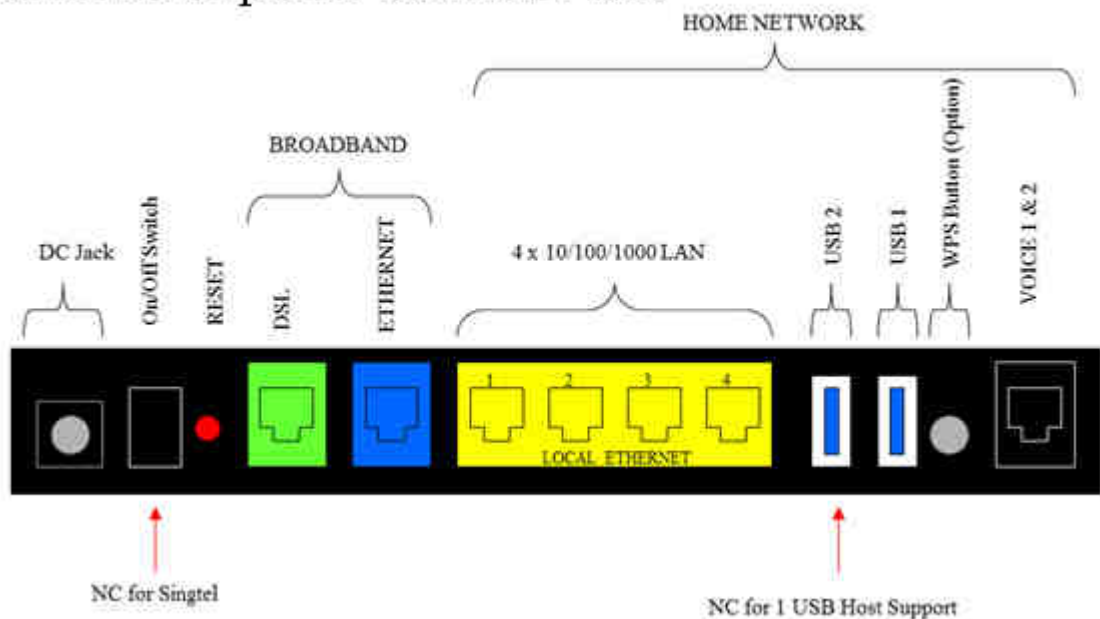
- 1 x Power LED (Green and Red)
- 1 x WAN Link Status LED (Green) (option)
- 1 x Ethernet 1 Link Status LED (Green)
- 1 x Ethernet 2 Link Status LED (Green)
- 1 x Ethernet 3 Link Status LED (Green)
- 1 x Ethernet 4 Link Status LED (Green)
- 1 x USB Link Status LED (Green)

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- 1 x Wireless LAN Link/Activity Status LED (Green)
- 1 x VoIP Phone 1 Status LED (Green)
- 1 x VoIP Phone 2 Status LED (Green)
- 2 x IPTV Status LED (Green and Red)
- 1 x Broadband Status LED (Green)
- 1 x Internet Status LED (Green and Red)
- 1 x WPS Status LED (Green). Note : Next to WPS switch

External Connectors:

Connector Sequence for Back Panel



- 1 x RJ-11 6P2C Telephone jack (Green) for DSL
- 1 x RJ-11 6P4C Telephone jack (Black) for FXS1 & FXS2
- 4 x RJ45 for Managed 10/100/1000Base-T Ethernet (Yellow) (AutoMDI/MDIX)
- 1 x RJ45 for 10/100/1000Base-T WAN port (Blue)
- 2 x USB 2.0 Host (Back)
- 1 x WPS Button (Front)
- 1 x DC Jack for Power Input
- 1 x On/Off power switch (Option)
- 1 x Factory Default Reset Button
- 2 internal antennas(PCB)
- Metal Back Panel

Measurements:

- Dimension : 172mm (W) x 219mm (H) x 42mm (D)
- Weight : 540g

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4.0 REGULATORY APPROVALS

Europe : CE (EN300 328/EN301 489: 98), IEC60950

5.0 ENVIRONMENTAL

5.1 TEMPERATURE.

Operating : 0° to 50° Celsius
32° to 122° Fahrenheit
Non-Operating : -25° to 70° Celsius
-13° to 158° Fahrenheit

5.2 HUMIDITY.

Operating : 30% to 80% Relative Humidity (Non-Condensing)
Non-Operating : 30% to 95% Relative Humidity (Non-Condensing)

NOTE : Specifications subject to change without prior notice.