VV 5820. Voice Series

High End VDSL2 IAD with full LAN/WAN GbE ports.
Higher Wi-Fi performance with up to 1200Mbps throughput.

HIGHLIGHTS

High performance Wi-Fi: 11n 2x2 @2,4GHz + 11ac 3x3 @5GHz

dual band concurrent

1 Gigabit Ethernet WAN port

4 Gigabit Ethernet LAN ports

Voice Over IP via 2 dedicated FXS ports

Remote management through TR-069

OSGi framework to easily add advanced services option

DLNA media sharing option

This advanced Residential Gateway is an integrated platform for triple-play services, combining a VDSL2 WAN uplink and ADSL2+ fallback option, for your wired/wireless data, Voice-over-IP and IPTV offers.

File and printer sharing is easy, users can simply plug a USB hard disk or a printer and share it across their home network. Users can simply plug a USB hard disk and share multimedia content across their home network.

ADB's home gateways are equipped with Epicentro®, ADB's state-of-the-art software platform, which in conjunction with an OSGi framework option allows service providers to deploy software modules and applications over time via transparent TR-069 remote management, creating opportunities to provide function and service up-selling to the consumer on the same hardware device.

adbglobal.com

VV 5820. Voice Series

High End VDSL2 IAD with full LAN/WAN GbE ports.
Higher Wi-Fi performance with up to 1200Mbps throughput.

TECHNICAL SPECIFICATIONS 1/2

WAN Interface

- 1 Line port (RJ-11plug) supporting the following standards:
  - VDSL2 Profiles: 8b, 8c (Central Office), 12a, 12b, 17a (Cabinet) Profiles
  - Annex B (Europe) 998, Annex B (Europe) 997 Bandplans
  - ADSL fallback. Annex A (G.992.1, G992.2, T1.413, G994.1, G.997.1), ADSL2 (G.992.3), ADSL2+ (G992.5)
- 1 Gigabit Ethernet (RJ45 Plug) compliant with IEEE 802.3 with auto MDIX auto-negotiation.

LAN Interface

- 4x Ethernet ports 10/100/1000 BASE-T/TX (RJ-45 plug), compliant to IEEE 802.3, with auto MDIX and auto-negotiation.
- Ports can be configured in order to be dedicated to video traffic to/from a set-top box

Expansion Ports

- 2x USB Hosts v 2.0

Wireless Interface

- Wi-Fi access point compliant with:
  - IEEE 802.11n (2.4 GHz), 2x2 spatial multiplexing with LTE filtering.
  - IEEE 802.11ac (5 GHz), 3x3 spatial multiplexing.
  - WFA 11n, WPA2, WMM, WPS PBC option
  - Support for WEP (40-bit key , 104-bit key)

xDSL Features:

- AAL5 (ITU-T I.363.5)
- UBR, VBR-nrt, VBR-rt, CBR traffic classes – Traffic shaping
- Independent per-PVC settings
- Up to 8 (simultaneously active) PVC connections, each with pre-configurable VPI/VCI value pair (full range: (0 255)/(32 65535)) or VPI/VCI auto search in the (0 9)/(32 61) range
- OAM (ITU-T I.610)
  - F4, F5
  - Loop-back
- Encapsulation modes in ATM stack: LLC SNAP and VC-Mux
- Encapsulation modes in PTM stack: with or without VLAN tag
- Dynamic rate adaptation , Dying gasp, Bit swapping – Fast and interleaved paths – INP

VLAN

- Supports multiple VLAN ID per ports

WAN Protocol Encapsulation

- Bridged/Routed Ethernet over ATM (RFC 2684 / RFC 1483)
- PPP over Ethernet (RFC 2516)
- PPP over ATM (RFC 2364)
- IP over ATM (RFC 1577)
- Multiple PPPoE connections on a single VC

Routing / Bridging

- Dynamic and Static NAT-NAPT
- DHCP Server/Client/Relay
- DNS, Dynamic DNS
- VPN (L2TP/PPTP/IPSec) Pass-Through
- IPv4 and IPv6
- Application Level Gateway (ALGs) modules
- Spanning tree protocol
- IGMP v1, v2, v3
- IGMP Snooping, Proxy-Routing

connecting lives
connecting worlds

VV 5820. Voice Series

High End VDSL2 IAD with full LAN/WAN GbE ports.
Higher Wi-Fi performance with up to 1200Mbps throughput.

TECHNICAL SPECIFICATIONS 2/2

QoS

- Traffic shaping (ATM layer)
- Priority-based scheduling (multiple queues per PVC with ATM-level prioritisation)
- IP QoS:
  - Layer-2 (IEEE 802.1D priority, p-bits in IEEE 802.1Q VLAN header)
  - Layer-3 (Diffserv DSCP codepoint)
- Multiple strict priority and Weighted Round Robin (WRR) priority queues
- Layer-2 and/or Layer-3 configurable priority field re-marking (tagging/ untagging)

VoIP

- Codecs: G.711 a-law/µ-law, G.729
- Voip stacks supported: SIP2.0
- Voice interface: 2 FXS Phone ports (RJ11 Plug)
- Codecs Control: RTP/RTCP, SDP In-band (voice encoded) or out-of-.band (over RTP) transport of DTMF signaling; out-of-band option (default) uses RTP payload for DTMF digits.

Management

- Broadband Forum TR-069 CPE Management Protocol (CWMP)
- Broadband Forum TR-098 Gateway Device v1.1 Data Model and TR-181 Data Model
- Broadband Forum TR-104 DSL Home Provisioning Parameters for VoIP CPE
- Broadband Forum TR-111
- Web GUI-based (HTTP server)
- Diagnostics and LOGs

- Telnet with CLI
- Support for firmware updates from local and remote management interface

Security

- Stateful Packet inspection (SPI) Firewall
- Access Control
- Traffic Filtering
- Intrusion detection
- DOS
- Services
- Printer sharing
- Samba file server
- DLNA® DMS (optional)
- OSGi execution environment (optional)

Power Adapter

- INPUT: 100-240Vac 50/60Hz
- OUTPUT: 12Vdc, 2A

Buttons

- 1x Reset Button
- 1x Power Button
- WLAN ON/OFF & WPS (option)

LEDs

- Power
- DSL
- Internet
- WiFi
- Phone
- Ethernet

Environmental Specifications

Temperature:
- Operating: 5 to 40 °C
- Non Operating: -20 to 70 °C

Relative Humidity:
- Operating: 10% to 90% non-condensing
- Non Operating:5% to 95% non-condensing

Agency Approvals and Certifications

- CE mark
- ITU-T K21
- Wi-Fi certification (by Wi-Fi alliance)
- RoHS, REACH
- WEEE
- ErP

Standard Package Content

- VV 5820
- Power adapter
- Ethernet CAT5-e cable RJ-45 plug (Yellow)
- Connecting Cable (RJ-11)
- CD
- Safety leaflet

Physical Specifications

- Product dimension: 210 x 170 x 49.5 mm
- Box dimension: 330 x 180 x 55 mm
- Product weight: 520gr (box: 970gr)

connecting lives
connecting worlds