

AT&T Phone for Business – Advanced VAB-1



AT&T Phone for Business – Advanced (APBA) Voice and Backup (VAB-1) is a cellular / Public Switched Telephone Network (PSTN) / Managed Facilities Voice Network (MFVN) capable communications solution. The APBA VAB-1 enables multiple combinations of legacy analog wireline communications and signals to be carried over flexible combinations of wide-area network (WAN)/local-area network (LAN)/ Long Term Evolution (LTE) cellular data networks .

These include in-band voice, machine to machine (M2M) data, Dual Tone Multi-Frequency (DTMF) signaling tones, analog data modem tones, fax, alarm system signals, and other analog communication protocols (all previously connected to the PSTN).

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This solution uses Internet Protocol (IP) communications, including cellular data networks, to route traffic received to or from the PSTN, using various methods to enable call origination / completion, with seamless, automated broadband failover to cellular and automatic recovery.

The APBA VAB-1 WAN / cellular appliance provides multiple choices of access and connectivity, enabling replacement of wireline plain old telephone service (POTS) lines supporting connected analog devices. Redundant sources of internet and power are leveraged for unparalleled reliability. In addition, enhanced PSTN replacement technology supports M2M communication and allows legacy analog devices to communicate reliably.

Application functionality that requires a traditional wireline, dial tone-based circuit may use the APBA VAB-1 for connectivity. Transmission options include both cellular data channels and other alternative internet access pathways. This provides true failover and diverse routing for calls. With an internal 24-hour capable battery¹ and integrated uninterruptible power supply (UPS) and LTE capabilities, the VAB-1 provides ongoing connectivity to the connected gateway device for an always-on experience during power or internet outages.

¹Battery actual time may vary based on usage.

Supported services

Voice over IP (VoIP) via LTE and/or wired internet connection | Multi-protocol support for fire and security alarms | Fax | Auto-dial call boxes (ring down) | Legacy analog data support for a wide variety of frequency-shift keying (FSK) enabled modems | Point-of-sale terminals | M2M and supervisory control and data acquisition (SCADA) vending machine communications | ATM machine data lines | Utility automatic meter reading | Band 14 option

Interfaces

- 8 RJ-11 for Foreign Exchange Subscriber (FXS) ports with voltage protection
- 1 RJ-45 Ethernet - WAN port (10/100/1000Mbps)
- 1 USB port Type A
- 2 SIM card slots – 2FF
- Cellular LTE: radio bands 2, 4, 5, 12, 13, 14, 66, 71
- 2 SubMiniature version A connector (SMA) LTE antenna ports
- LED status indicators: Signal, LTE, battery, and power ICONS and RJ11 analog port indicators
- Reset button

Environmental

- Operation temperature: -0° C to +40° C (+32° F to +104° F)
- Storage temperature: -30° C to +70° C (-22° F to +158° F)
- Relative humidity: 10% to 90% non-condensing

Integrated voice

- VoIP via LTE and/or wired internet connection
- Dual Tone Multi-Frequency (DTMF): In-band, out of band
- Perceptual Evaluation of Speech Quality (PESQ) > 4.3 (G.711); 3.7 (G.729)

Physical

- CPU 1GHz, dual core
- RAM: 256MB
- 10 inches (height) x 6 inches (length) x 4.5 inches (width)
- Injection mold plastic case
- Wall mount included

Voice call features

- E911 support
- Teletypewriter / Telecommunications Relay Service (TTY / TRS) capable
- Caller ID number
- 3-way conference
- Call hold
- Call transfer
- Fixed call forwarding with calling hours
- Ring / hunt groups

Power

- AC power adapter (bundle dependent): Output: 12V, 2.5A or 19V, 3.2A
- UPS port for approved devices – external battery backup
- DC input (10VDC-16 VDC) 5A barrel plug
- Battery: 18 cell, 15Ah; lithium-ion
- Internal battery standby: up to 24 hours¹

Features and capabilities

- Analog POTS line replacement
- Alarm communication (fire / burglary)
- Legacy fax transmission
- Elevator, paging, taxi phone line (auto dial)
- Ring-down telephone line circuit
- Legacy analog modem M2M communication
- Automatic utility meter reading
- Telemetry command and control/(SCADA)
- 24-hour power failover battery¹

¹Battery actual time may vary based on usage.

For more information, contact your AT&T representative or visit AT&T Phone for Business – Advanced at att.com

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