DATAREMOTE
MOVING DATA OVER WIRELESS

POTS IN A BOX®

Cellular Backup Router

This innovative solution primarily uses the Cellular LTE Data Network, along with a firewalled Network Operating Center (NOC) to route Cellular data received to or from the PSTN/MFVN to enable call origination or call completion to occur using various methods including VoIP over Cellular Data channels.

The VAB-1 Cellular/WAN appliance permits connected devices to directly replace wire-line analog Plain Old Telephone Service (POTS) lines and provide for multiple choices of access and connectivity.

Any application functionality that requires a traditional wireline, dial tone-based circuit may utilize the NEW Advanced POTS in a BOX® VAB-1 for connectivity. Transmission options include the ability for both Cellular Data channels and other alternative internet access pathways to provide true failover and diverse routing for calls. Additional reliability in local power outage situations is provided by an internal 24-hour capable battery*.

The NEW Advanced POTS in a BOX® VAB-1

The NEW Advanced POTS in a BOX® VAB-1 Cellular/PSTN/MFVN capable communications solution enables multiple combinations of legacy analog wireline in-band Voice, Machine to Machine (M2M) Data, DTMF signaling tones, analog data modem tones, FAX and Alarm system signals (all previously connected to the Public Switched Telephone Network [PSTN]), to be carried over flexible combinations of WAN/LAN/LTE Cellular Data Networks.

Features & Capabilities

- Direct plug & play Analog POTS line replacement
- (8) RJ-11 lines
- Integral Router with 1 WAN port
- 2 wired Gigabit LAN Ports
- UPS External Power Backup for Approved Devices
- Support for legacy FAX transmission
- Burglar and Fire Alarm signal transmission
- Ring-Down telephone line circuit
- Analog M2M native support
- Legacy Analog Modem support

- Telemetry command and control (SCADA)
- Emergency Responder Access
- SMB Router/Gateway
- LTE dual SIM capable
- GNSS Location Based Service capability option
- 24-Hour power failover battery*
- One number dialer capable
- Elevator, Paging, Taxi phone line (Auto dial)
- Monthly managed voice service
- Individual line status reporting

Supported Services

Voice Over IP via LTE | FAX | Multi-protocol support for Fire and Security Alarms | Auto Dial call boxes (Ring Down) Legacy Analog data support for a wide variety of FSK enabled Modems | Point of Sale terminal | M2M and SCADA Vending machine communications | ATM Machine Data line | Utility Automatic Meter Reading

Interfaces

- 8 RJ-11 for FXS ports with Voltage Protection
- 3 RJ-45 Ethernet 1 WAN/2 LAN ports (10/100/1000 Mbps)
- USB Port Type A
- 2 SIM Card slots - 2FF
- Cellular LTE Radio Bands: 2,4,5,12,13,14,66,71
- 2 antenna ports — SMA for LTE
- UPS Power Supply Port for Approved Devices
- LED status indicators
- Reset Button

Power

- DC input 10VDC-16VDC, 5A Barrel Plug
- AC Power Adapter (Bundle-dependent): Output: 12V, 2.5A or 19V, 3.2A
- UPS Power Port for Approved Device for External Battery Backup
- Battery: 18 cell, 15Ah; Lithium-ion
- Internal Battery Standby: Up to 24 Hours*
- Battery is hot swap-able
- Graceful shutdown (Sends battery Alert)

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

Physical

- CPU 1GHz, Dual Core
- RAM: 256MB
- Injection Mold Plastic Case
- Mounting hardware for wall mounting included

Optional Wired NAT Router

- DHCP Server and Client
- VPN
- Firewall

* Battery actual time may vary based on usage

Integrated Voice

- Voice over IP via LTE·VoIP
- DTMF: In-band, out of band
- PESQ > 4.3 (G.711); 3.7 (G.729)
- Echo Cancellation
- CPC - Calling Party Control

Voice Call Features

- E911 Support
- TTY/TRS Capable
- Caller ID/CWCID
- 3-way conference
- Call hold, forwarding, transfer
- Call waiting
- Ring/Hunt groups

Enhanced Line Features

- Alarm Communication
- Modem M2M Communication
- Advanced FAX Support

Management

- Secure/Restricted Web-based Management
- Customer management dashboard
- Line status monitoring with alert capabilities
- Mass device management and provisioning
- Developer API for device integration
- Flexible plans for required managed service

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