POTS IN A BOX®

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 to enable call origination or call completion to occur using various methods including VoIP over Cellular Data channels.

The CDS-9090 Cellular/WAN/FirstNet (when optioned) appliance permits connected devices to directly replace wire-line analog Plain Old Telephone Service (POTS) lines and provide for multi-ple 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 9090 for connectivity. Transmission options include the ability for both Cellular Data channels and other alternative in-ternet access pathways to provide true failover and diverse routing for calls. Advan-ced optional capability provides for FirstNet Band 14 transmission access. Additional reliability in local power outage situations is provided by an internal 24-hour capable battery. Support for location specific E-911 is also in-cluded.

The NEW Advanced POTS IN A BOX® CDS-9090

The NEW Advanced POTS IN A BOX® CDS-9090 Cellular/Wi-Fi/PSTN/-FirstNet capable communications solution enables multiple combina-tions of legacy analog wire-line 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 Network and (when optioned) FirstNet Band 14.

Features & Capabilities

- Direct plug & play Analog POTS line replacement
- (8) RJ-11 lines
- Integral Router with 1 combo WAN/SFP port
- 4 wired Gigabit LAN Ports
- Support for legacy FAX transmission
- Burglar and Fire Alarm signal transmission
- Ring-Down telephone line circuit
- Analog M2M native support
- Legacy Analog Modem support
- Utility Automatic Meter reading

- Telemetry command and control (SCADA)
- Emergency Responder Access
- SMB Router/Gateway
- Integral Wi-Fi (Host & Client)
- FirstNet Band 14 option
- LTE dual Cell carrier capable
- GPS capability option
- 12-Hour power failover battery
- One number dialer capable
- Elevator, Paging, Taxi phone line (Auto dial)
- Monthly managed voice service

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 | FirstNet Band 14 option

Interfaces

- 8 RJ-11 for FXS ports with Voltage Protection
- 5 RJ-45 Ethernet 1 WAN/4 WWAN ports
  (10/100/1000bps, SFP)
- Wi-Fi 2.4G (802.11 b/g/n, MIMO 300Mbps)
- Wi-Fi 5.0G (802.11 a/an/ac, MIMO 867 Mbps)
- 2 SIM Card slots (Dual Carrier)
- Console interface DB-9 & RS-232
- PCIE Card Interface (Peripheral Component In-ter-connect Express)
  USB 3.0 & 2.0
- Cellular LTE Radio Bands: 2,4,5,12,13,14,71
- 6 external antenna ports•2 @ LTE 0•2 @ LTE 1•2 @ Wi-Fi 2.4G & 5G
  Dual Band Wi-Fi
- LED status indicators
- Power & Battery master switch
- FirstNet (optional)

Power

- DC input (7VDC-16 VDC) 5-Pin locking plug
- AC Power Adapter:
  Input: 90~260V Output: 15V, 3A
- Battery: 7.4vdc; 10000mAh/74Wh; Lithium ion
- Internal Battery Standby: 12 Hours
- Battery is hot swap-able
- Graceful shutdown (Sends battery Alert)

Environmental

- Operation Temperature: -5° C to +50° C
  (+23° F to + 122° F)
- Storage Temperature: -5° C to +50° C
  (+ 23° F to + 122° F)
- Relative Humidity: 5% to 95% Non-Cond.
- Shock: Impact tested to 75cm (30 inches) drop
  Meets GR-63-CORE standard

Physical

- CPU A7, Quad core processor
- Aluminum extrusion case, Black
- Mounting bracket for wall mounting included

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

Voice Call Features

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

Optional Wired NAT Router

- DHCP Server and Client
- WWAN
- VPN
- Firewall

Management

- Web based management Interface
- Customer management dashboard
- Line status monitoring with an alert via text
- Mass device management (TR-069)
- Flexible plans for required managed service
- Billing via Service provider or direct to customer

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