



## The NEW Advanced POTS IN A BOX<sup>®</sup> CDS-9090

This New Cellular/Wi-Fi/PSTN/FirstNet capable communications solution enables multiple combinations of legacy analog wire-line to be carried over flexible combinations of WAN/LAN/LTE Cellular Data Network and (when optioned) FirstNet Band 14. These Include: 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]).

## 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
- Native Analog M2M Support
- Legacy Analog Modem Support
- Automatic Utility Meter Reading
- Telemetry Command and Control (SCADA)
- Emergency First Responder Access
- SMB Router/Gateway
- Integral Wi-Fi (Host & Client)
- Option for FirstNet Band 14
- 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

## Cellular Backup Router

This innovative solution uses IP communications including Cellular Data Networks to route traffic received to or from the PSTN to enable call origination or call completion to occur using various methods.

The **CDS-9090** Cellular/WAN/FirstNet appliance, if required (optional), permits connected devices to directly replace analog Plain Old Telephone Service (POTS) lines and provide for multiple choices of access and connectivity.

Any application functionality that requires a traditional wireline or dial tone-based circuit may utilize the **NEW Advanced POTS IN A BOX<sup>®</sup> CS-9090** for connectivity. Transmission options include both cellular data channels and other alternative internet access pathways. This provides true failover and diverse routing for calls. Advanced optional capability provides FirstNet Band 14 transmission access. Additional reliability in local power outage situations is provided by an internal 12-hour capable battery.

System also includes support for local E-911 services.

## Interfaces

- 8 RJ-11 for FXS ports
- 5 RJ-45 Ethernet 1 WAN/4 LAN ports (10/100/1000Mbps, 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)
- PCIE Card Interface  
(Peripheral Component Interconnect 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
- Hot-Swappable Battery
- 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

- 13" x10" x 3" (LxWxH)
- 7.5 Lbs.
- CPU A7, Quad core processor
- RAM: 256 MB
- 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

## 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

## Optional Wired NAT Router

- DHCP Server and Client
- WWAN
- VPN
- Firewall



Questions? Check out [velocitymsc.com/service/pots-in-a-box/](https://velocitymsc.com/service/pots-in-a-box/) for more details.