

## Low Cost Cellular Replacement of POTS Lines

*A solution to replace POTS Lines supporting embedded Analog Modem Based Equipment*

C2C™, the latest addition to the Encore's BANDIT™ (Broadband Access Network Device for Intelligent Termination™) family is available as a commercial grade intelligent M2M appliance with integrated IP router, firewall, and IPsec VPN functionality, and embedded cellular modem. The C2C™ is ideally suited for legacy applications that currently depend on Plain Old Telephone Service (POTS) analog telephone lines terminating on CPE with embedded analog modems. These applications include banking (ATM), Point of Sales (POS), elevators, security and fire alarm panels, industrial process control, vending machines and kiosks, healthcare, RTU's, meters, and traffic control systems. The C2C™ solution is the easiest to implement, acting as a one-to-one replacement solution to the existing POTS with payback in as little as 10 months by;

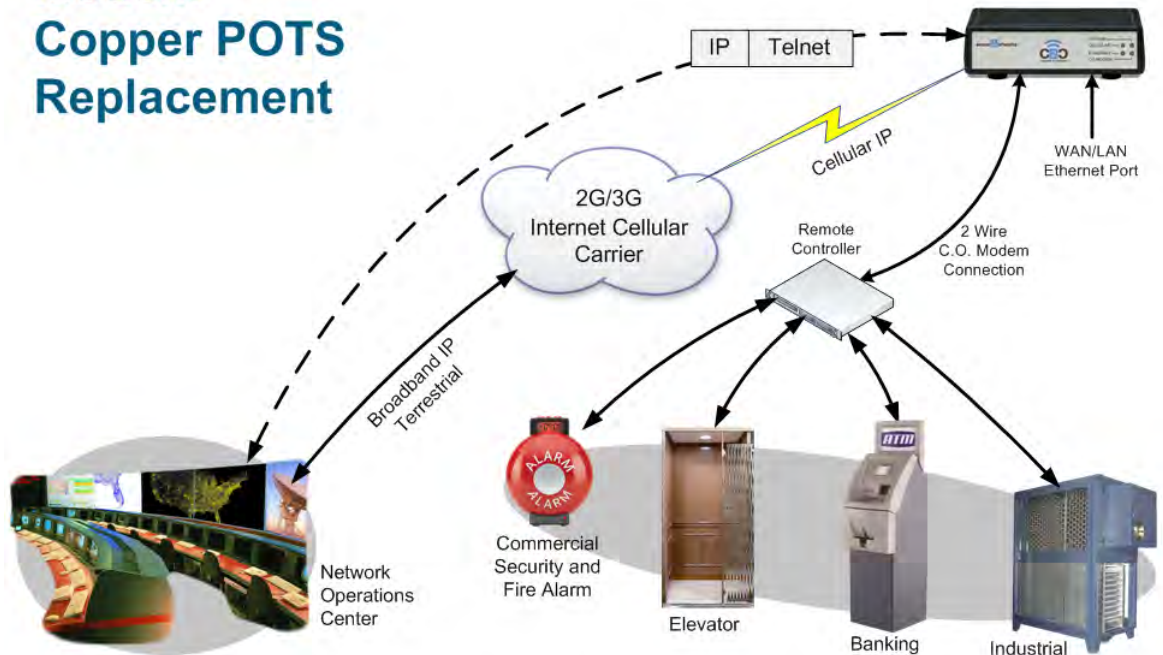
1. Protecting Capital Expenditure (CAPEX), with minimal operations impact
2. IP ready for future requirements
3. Eliminating the Operational Expenditure (OPEX) of analog lines including the cost of remote POTS
4. Eliminating the cost of calls via the Public Switched Telephone Network

By moving to an IP cellular infrastructure, users remove the dependence on copper lines that are limited in services and diminishing reliability. The increased bandwidth capacity of a cellular infrastructure supports new IP based functionality, such as video, that can be added to operate in real time. Simply connect to your existing analog modem transport via a 2G or 3G Cellular network. The remote equipment continues to function and operate with no changes to Operations Administration and Maintenance (OA&M) with the added benefits of increased data throughput and reliability. Increased data security utilizing IPsec (AES256, 3DES) VPN and firewall capability ensures secure system data and network connections directly to a commercial cellular data IP service or IP/Ethernet Wide Area Network (WAN) or Local Area Network (LAN). With its seamless Host Site diversification failover feature, the C2C™ is ideal for Disaster Recovery and Application Load Sharing to multiple Host Sites.

The C2C™ solution is a one-to-one replacement to existing POTS.



## Modem Copper POTS Replacement



- Embedded Cellular Modem
- M2M



## Technical Specifications

### Physical Interfaces

- **WAN/LAN Connectivity:**
  - One 10/100 Ethernet w/ Auto Failover
  - One CO Modem RJ11

### Connectivity

- **Data Modem Port**
  - Bell103, Bell212, V.21, V.22, V.22 bis, V.23, V.32, V.32 bis, V.34
  - LS/GS
  - Polarity Reversal
  - V.42 with Error Correction - MNP 2-4
  - V.42 bis w/ Data Compression & MNPS
  - Rotary/DTMF
- **IP - Ethernet**
  - TCP, UDP/RTP Data Transport
  - RTP Packet Optimization
  - DLCI IP configuration
  - Telnet (Client or Server)
  - TCP Port configuration
  - TCP Broadcast
- **Wireless - Embedded**
  - Integrated Wireless modem supports 2G/3G Wireless Cellular data networks
  - 1 External Antenna / 1 Internal Diversity Antenna

### Management

- Manageable via SNMP
- Remote or Local Access
- Telnet

### System Features

- SNMP Alarms / Traps
- Password Security
- User Friendly interface
- Alarm Reports
- Syslog

### Security

- IP Authentication
- Call setup authentication
- Unit Authentication
- User Passwords
- Standard Encryption 3DES/AES
- IPSec
- Firewall

### Network Support

- IP Wireless
- Cellular Data
- IP Satellite
- IP Terrestrial
- Private or Public Networks

### Electrical Specifications

- **Power Supply Options:**
  - 7.5 watt maximum with embedded cellular modem
  - **AC:** 100-240VAC, 50-60Hz (with external adapter)

### Environmental

- **Environment:**
  - Temperature:
    - Commercial grade: 0° C to +50° C
    - Non-Operating: -40° C to +85° C
  - Humidity: 5% to 95% non-condensing
  - Altitude: Up to 10,000 ft. (3048 m)
- **Mechanical:**
  - Height: 1.2 in. (3.05 cm)
  - Width: 4.3 in. (10.92 cm)
  - Depth: 2.8 in. (7.11 cm)
  - Weight: Less than 1 lb. (< 0.45 kg)
  - Installation Type: Desktop/Shelf
- **Standards Compliance:**
  - RoHS Compliant
  - PCI Compliant
  - Product Safety
    - UL/CSA 60950-1
    - CAN/CSA-C22.2 No. 60950-1-03
    - EN 60950-1
  - EMC
    - FCC Part 15
    - EN 55022: 1998
    - EN 55024: 1998
  - NERC CIP (003, 005, 007, 009)
  - Part Number: C2CME-0000-0000-0

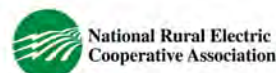
(Specifications Subject to Change without Notice)

C2C™

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Sold By: Teleprime Advanced Communications Division

1300 W. Lynn St. Ste. 213 | Austin, TX 78703 U.S.A. | Phone: 1-213-825-1020 | Fax: 1-213-825-1021

Email: sales@teleprimeacd.com | Web: www.teleprimeacd.com

