

Protect Capital Expenditure (CAPEX) with Minimal Operations Impact

Industrially Hardened and Commercial Grade Security Appliance

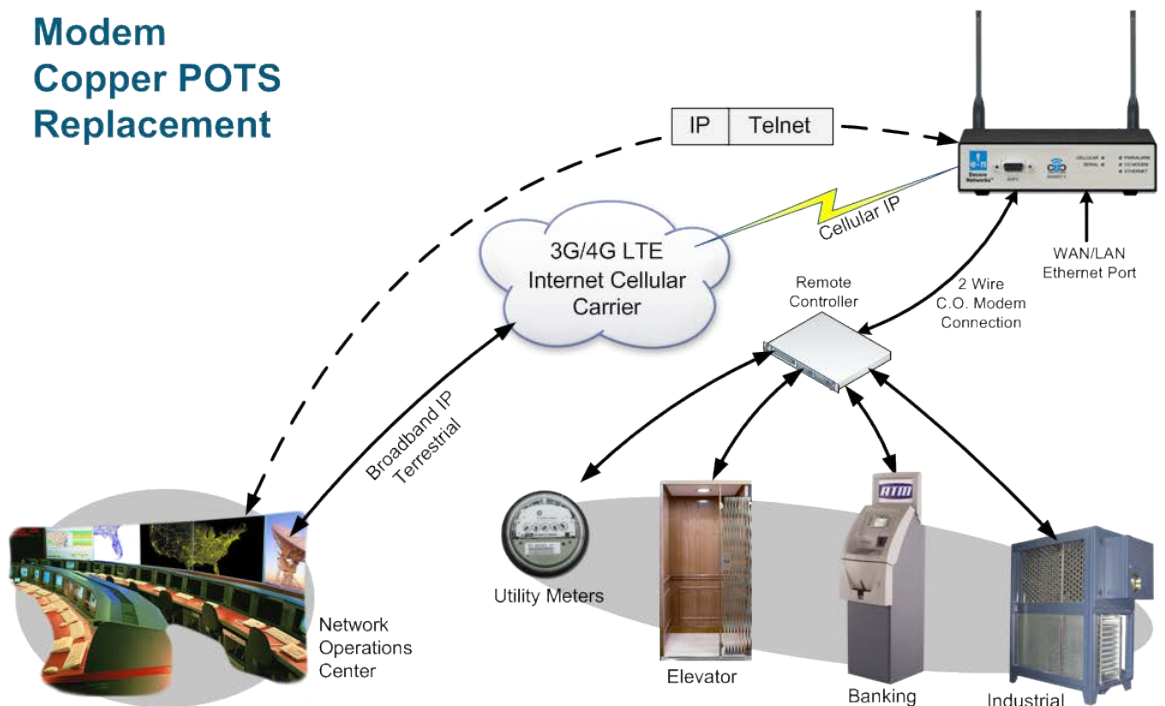
BANDIT-2 C2C™, a member of Encore's BANDIT™ (Broadband Access Network Device for Intelligent Termination™) family, is available as an industrially hardened or commercial grade intelligent M2M appliance with integrated router, firewall, terminal server, serial-to-IP conversion, legacy-protocol conversion, and VPN functionality with embedded cellular modem. The BANDIT-2 C2C™ is designed for banking (ATM), Point of Sales (POS), elevators, industrial process control, vending machines and kiosks, healthcare, RTU's, meters, traffic control systems and other legacy devices, that currently depend on Plain Old Telephone Service (POTS) telephone lines terminating on CPE with embedded analog modems. 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;

- Protecting Capital Expenditure (CAPEX), with minimal operations impact
- IP ready for future requirements
- Eliminating the Operational Expenditure (OPEX) of analog lines including the cost of remote POTS
- 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 3G/4G LTE 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 services or IP/Ethernet Wide Area Network (WAN) or Local Area Network (LAN). With its seamless Host Site diversification failover feature, the BANDIT-2 C2C™ is ideal for Disaster Recovery and Application Load Sharing to multiple Host Sites.

Application Diagram

Modem Copper POTS Replacement



- Embedded Cellular Modem
- M2M
- Modem Copper POTS Replacement



Technical Specifications

Security Appliance Features

- ▶ Integrated router/firewall/VPN
- ▶ NAT, PrAT, eNAT-T
- ▶ VPN (up to 30 simultaneous tunnels)
 - IP Sec (RFC 2401) with DES (56 bit), 3DES (168 bit) and AES (256 bit)
 - G- RE (RFC 1701)
 - SLE (Selective Layer Encryption)

Protocols

WAN Serial

- Frame Relay
- Asynchronous and Synchronous PPP
- MLPPP
- X.25

IP Ethernet

- IP Routing (RIP v1/v2) or Static Routing
- IPSec and SLE VPN
- VPN Split Tunneling
- DHCP Client/Server/Relay/BootP
- IP QoS and traffic prioritization
- VRRP (RFC3768)
- VLAN
- 802.1q VLAN tagging

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

Serial Legacy Support

- ▶ One DB25 port
- ▶ Supports multiple asynchronous and synchronous legacy protocols
- ▶ One DB9 serial console port supporting EIA/TIA RS232
- ▶ Protocol support for BiSync, X.42, DNP3, MODBUS, CDC, S/NET, CONITEL, ABB, and most electrical industry proprietary protocols; inquire for additional protocols

Physical Ports

Serial

- 1 DB25 port (RS232) User port
- 1 DB9 port (RS232) console or User port

CO Modem

- 1 RJ11

Ethernet

- 1 10/100 BASE T

Wireless - Embedded

- 4G LTE
- EVDO
- HSDPA
- 2 Antennas for Diversity

Electrical

- ▶ Power Supply Options
 - 7.5 watts maximum
 - DC: 12VDC, 24VDC, 48VDC
 - AC: 100-240VAC, 50-60Hz (with external adapter)

Environmental

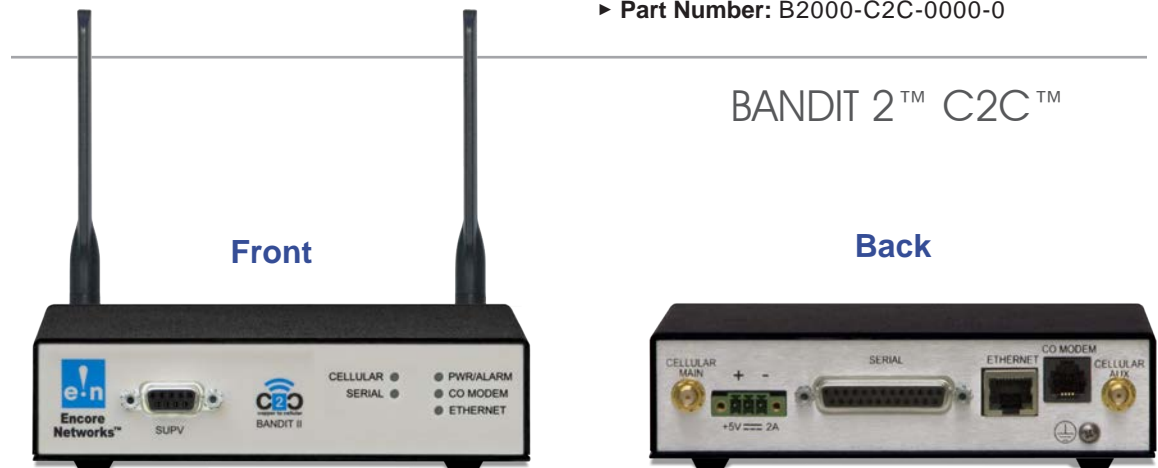
- ▶ Temperature:
 - Industrially hardened: -40° C to +85° C - DC
 - -30° C to +70° C - AC
 - Commercial-grade: 0° C to +50° C
 - Cellular Wireless: -40° C to +70° C
 - Non-Operating: -40° C to +85° C
- ▶ Humidity: 5% to 95% non-condensing
- ▶ Altitude: Up to 10,000 ft. (Up to 3048 m)

Mechanical

- Height:** 1.5 in. (3.81 cm)
- Width:** 6.0 in (15.24 cm)
- Depth:** 4.4 in. (11.18 cm)
- Weight:** Less than 1 lb. (Less than 0.45 kg)
- Installation Type:** Desktop

Standards Compliance

- ▶ RoHS Compliant
- ▶ PCI Compliant
- ▶ EMC
 - FCC Part 15
 - EN 55022: 1998
 - EN 55024: 1998
- ▶ Product Safety
 - UL/CSA 60950-1
 - CAN/CSA-C22.2 No. 60950-1-03
 - EN 60950-1
- ▶ NERC CIP (003, 005, 007, 009) Compliant
- ▶ Part Number: B2000-C2C-0000-0



(Specifications subject to change)

