Ideally Suited For Electric, Gas, Oil, and Water Utilities, Transportation, Green Energy, and Traffic Control System Applications!



Industrially Hardened and Commercial Grade Security Appliance

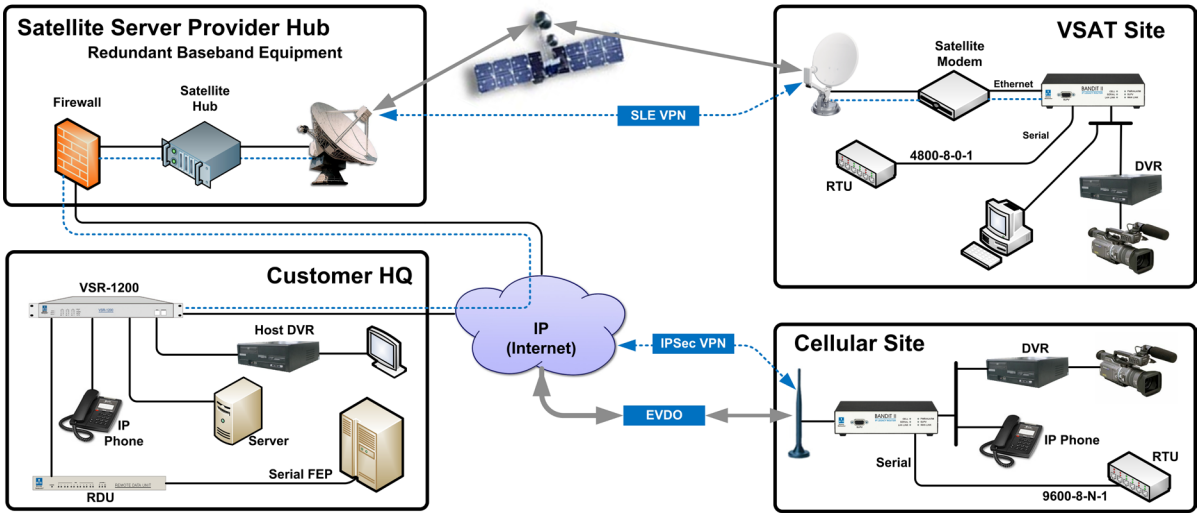
BANDIT 2™, the latest addition to the Encore's BANDIT™ (Broadband Access Network Device for Intelligent Termination™) family, is available as an industrially hardened or commercial grade cyber security appliance with integrated router, firewall, terminal server, serial-to-IP conversion, legacy-protocol conversion, and VPN functionality. Ideally suited for lottery, banking (ATM), AMI/AMR, electric, gas, oil and water utilities, transportation, green energy, and traffic control system applications, the BANDIT 2™ ensures secure system data and SCADA network connections directly to the Internet, secure Wide Area Network (WAN) and/or Local Area Network (LAN), or commercial cellular data IP services. With its seamless Host Site diversification failover feature, the BANDIT 2™ is ideal for Disaster Recovery and Application Load Sharing to multiple Host Sites.

Summary Points

- Available in industrially hardened and commercial grade versions
- IPSec or Selective Layer Encryption (SLE) for enhanced VPN over satellite networks
- Manageability (Remote Monitoring and Configuration)
- Multi Network connectivity over any network including Frame Relay and IP Broadband
- Cellular connectivity for primary, load sharing, back-up or out-of-management support
- Up to 2 serial ports for legacy traffic
- Host Site Diversification for Disaster Recovery with Multicast



Application Diagram - VSAT and Cellular



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Technical Specifications

General Features
- Protocol management (spoofing) and translation
- NERC CIP (003, 005, 007, 009) compliant firewall security
- Secure Wireless Cellular connection
- SNMP manageability (Monitoring and Configuration)
- Operating System (OS) and Configuration Servers
- Disaster Recovery and Load Sharing
- QoS Enforcement
- VPN

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 Patented SLE VPN
- VPN Split Tunneling
- DHCP Client/Server/Relay/BootP
- IP QoS and traffic prioritization
- VRRP (RFC3768)
- VLAN
- 802.1q VLAN tagging

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 DNP3, IEC 60870-5-101/103/104, 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

Ethernet
- 2 10/100 Base T (1 WAN / 1 LAN)

Optional
- CDMA (1xRTT), EVDO
- GSM, GPRS, EDGE, UMTS, HSDPA, HSPA

Electrical
- Power Supply Options
  - 7 watts maximum with integrated cellular modem
  - DC: 12VDC, 24VDC, 48VDC, 130VDC, 250VDC
  - AC: 100-240VAC, 50-60Hz (with external adapter)

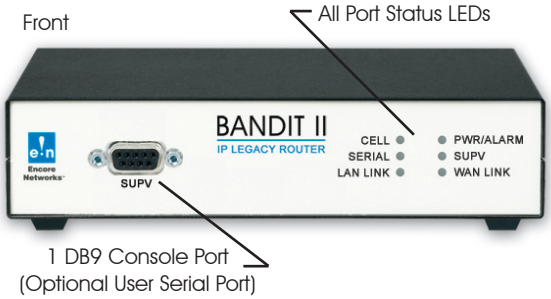
Environmental
- Temperature:
  - Industrially hardened: -40° C to +85° C - DC
    -30° C to +70° C - AC
  - Commercial-grade: 0° C to +50° C
  - Cellular Wireless: -40° C to +70° C
  - Non-Operating: -40°C to +85°C
- **Humidity:** 5% to 95% non-condensing
- **Altitude:** Up to 10,000 ft. (Up to 3048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

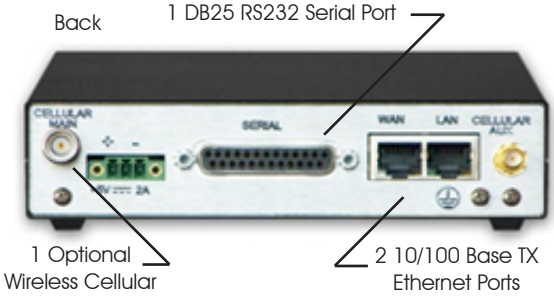
Mechanical
Height: 1.5 in. (3.81 cm)
Width: 6.0 in (15.24 cm)
Depth: 4.4 in. (11.18 cm)
Weight: Less than 1 lb. (Less than 0.45 kg)
Installation Type: Desktop / Bracket / Shelf

Standards Compliance
- **RoHS 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

- **Part Number**
  - Base Unit, B2000-0000-0000-0

BANDIT 2™





Specifications subject to change

ZigBee Alliance
ZigBee Alliance Member

UTC Member

VPNC CERTIFIED

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