

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

Industrially Hardened and Commercial Grade Security Appliance

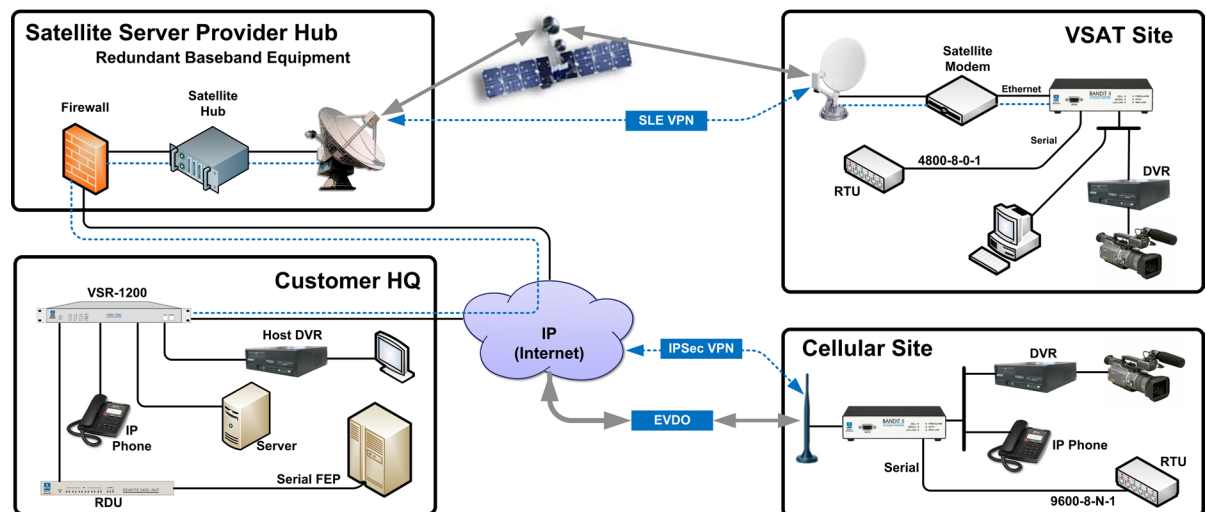
BANDIT 2™, the latest addition to the Encore's BANDIT™ (Broadband Access Network Device for Intelligent Termination™) family, is available as an industrially hardened or commercial grade cyber security appliance with integrated router, firewall, terminal server, serial-to-IP conversion, legacy-protocol 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



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

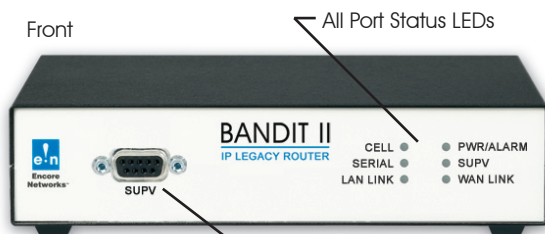
- ▶ Temperature:
 - Industrially hardened: -40° C to +85° C - DC
 - -30° C to +70° C - AC
 - Commercial-grade: 0° C to +50° C
 - Cellular Wireless: -40° C to +70° C
 - Non-Operating: -40° C to +85° C
- ▶ Humidity: 5% to 95% non-condensing
- ▶ Altitude: Up to 10,000 ft. (Up to 3048 m)

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



1 DB9 Console Port (Optional User Serial Port)



1 Optional Wireless Cellular and 2 10/100 Base TX Ethernet Ports

Specifications subject to change

