

BANDIT 3™



INDUSTRIALLY HARDENED SECURITY APPLIANCE

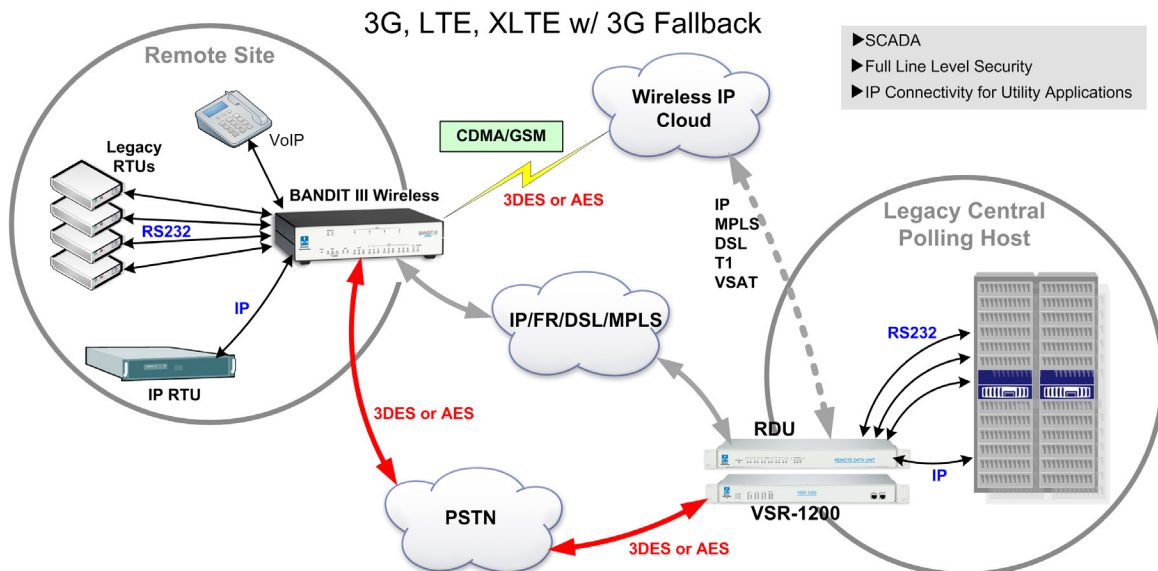
Summary Points

- Industrial hardened cyber security appliance
- IP Sec with DES , 3DES, and AES (256)
- Manageability (Monitoring and Configuration)
- Provides connectivity over any network (MPLS/Frame Relay or IP network to include Fiber, Ethernet, VSAT)
- Cellular connectivity options - 3G, LTE Only, XLTE w/ 3G Fallback
- Up to 6 serial ports for legacy traffic support
- Alarm Ports
- Legacy protocol support - serial and IP conversion

The BANDIT 3™, the latest addition to the Encore’s BANDIT™ (Broadband Access Network Device for Intelligent Termination™) family, is an industrially hardened cyber security appliance with integrated router, firewall, terminal server, serial to IP converter, legacy protocol conversion, and VPN functionality. Ideally suited for electric, gas, oil and water utilities, AMI/AMR, transportation, green energy, and traffic control system applications, the BANDIT 3™ ensures 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. Cyber security is an urgent issue in industries where advanced automation and communications networks have mission critical applications and high reliability is of paramount importance. These industries have mandated industry specific requirements to ensure their data networking and cyber assets are reliable and secure. The BANDIT 3™ has the necessary features to comply with the most stringent security requirements.

The BANDIT 3™ supports up to 6 serial RS232 ports, integrated four port fully managed Ethernet switch, selectable power supplies and redundancy options, and an optional integrated V.92 modem. In addition, the BANDIT 3™ supports two expansion slots supporting optional digital connectivity modules such as Fiber, Ethernet DMZ, T1/E1 CSU/DSUs, 56/64K CSU/DSU, MPLS, or 4 wire E&M, allowing for connectivity to microwave, satellite, IP, Frame Relay/MPLS services, analog radio and/or cellular connectivity modules allowing connectivity to public carrier secure cellular data services. Supported cellular interfaces include CDMA 1X/EVDO Rev A and GSM GPRS/EDGE/UMTS/HSDPA/HSPA.

Application Diagram



TECHNICAL SPECIFICATIONS

GENERAL FEATURES	<p>Protocol management (spoofing) and translation</p> <p>NERC CIP (003, 005, 007, 009) compliant firewall security</p> <p>Secure Wireless Cellular connection</p> <p>SNMP manageability (Monitoring and Config)</p> <p>Operating System (OS) and Configuration Servers</p> <p>Disaster Recovery and Load Sharing</p> <p>QoS Enforcement</p> <p>VPN</p>
SECURITY APPLIANCE FEATURES	<p>Integrated router/firewall/VPN</p> <p>DMZ LAN port</p> <p>NAT</p> <p>VPN (up to 30 tunnels)</p> <ul style="list-style-type: none"> • IP Sec (RFC 2401) with DES, 3DES and AES (256) • GRE (RFC 1701) • Internet Key Exchange - IKE (RFC 2409) <p>Selective Layer Encryption (SLE)</p>
PROTOCOLS	<p>WAN</p> <ul style="list-style-type: none"> • MPLS • Frame Relay (RFC1490) • Asynchronous PPP <p>IP</p> <ul style="list-style-type: none"> • IP Routing (RIP v1/v2) or static routing • DHCP client/server/BootP/Relay • IP QoS and traffic prioritization <p>Ethernet</p> <ul style="list-style-type: none"> • 802.1q VLAN tagging <ul style="list-style-type: none"> • Synchronous PPP • X.25 • MLPPP • IP fragmentation/reassembly • IP routing over VPN • VRRP (RFC3768) • PPPoE
SERIAL LEGACY SUPPORT	<p>Up to 5 DB25 ports supporting EIA/TIA RS485,RS232, RS422</p> <p>Supports any asynchronous or synchronous traffic over IP.</p> <p>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</p>
PHYSICAL PORTS	<p>Serial</p> <ul style="list-style-type: none"> • 1 universal DB25 port (RS232) • Optional four DB25 ports (RS232) <p>Modem - Optional</p> <ul style="list-style-type: none"> • integrated 56Kbps V.90/92 with PPP support (PAP/CHAP) <p>Ethernet</p> <ul style="list-style-type: none"> • 4 10/100 Base T - 3 switched and 1 configurable <p>Expansion Slot</p> <ul style="list-style-type: none"> • Dual Port Fiber Module – Multi or Single Mode SFPs • Single T1/E1 CSU/DSU channelized/unchannelized • Dual T1/E1 CSU/DSU channelized/unchannelized • 56/64k CSU/DSU <p>Alarm Port</p> <ul style="list-style-type: none"> • Programmable alarm indicators <p>Optional</p> <ul style="list-style-type: none"> • CDMA (1xRTT), EVDO <ul style="list-style-type: none"> • 1 RS232 console • Ethernet DMZ • Single Port High Speed Serial (V.35, RS 485, RS 422) • Dual Port 4 wire E&M • GSM, GPRS, EDGE, UMTS, HSDPA, HSPA
ELECTRICAL	<p>10 Watts maximum</p> <p>DC: 12VDC, 24VDC, 48VDC, 130VDC, 250VDC</p> <p>AC: 100-240VAC, 50-60Hz (with external adapter)</p>
ENVIRONMENTAL	<p>Operating: -40°C to +85°C</p> <p>Storage: -40°C to +85°C</p> <p>Humidity: 5 to 95%, non-condensing</p>
MECHANICAL	<p>Height: 2.375" (6.0 cm)</p> <p>Width: 10.375" (26.4 cm)</p> <p>Depth: 7.5" (219.1 cm)</p> <p>Weight: 2.25 lb. (1.02 kg)</p>
STANDARDS COMPLIANCE	<p>RoHS Compliant</p> <p>EMC FCC Part 15, EN 55011/CISPR II, IEC 61850-3, IEEE 1613</p>
PRODUCT SAFETY	<p>UL/CSA 60950-1, EN 60950-1</p> <p>CAN/CSA-C22.2 No. 60950-1-03</p>

Specifications subject to change without notice

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