encore!networks™

EN-2000™

LTE/HSPA+ Broadband Router

The Encore Networks EN-2000™ is a high performance ultra-low cost M2M VPN network router designed for wireless LTE networks. Ideally suited for the 'Internet of Things,' this compact IP M2M router provides license free IP, VPN, Firewall, Ethernet and IP interworking with an embedded LTE cell module. Servicing the needs of mission critical business and enterprise applications providing 24/7 x 365 connectivity. The EN-2000™ supports high-availability in fixed or portable locations supporting such verticals as: Remote Monitoring, Video/Alarm Panel Surveillance, Finance e.g. ATMs, branch back up/Business Continuity, and Distributed Enterprise Support.

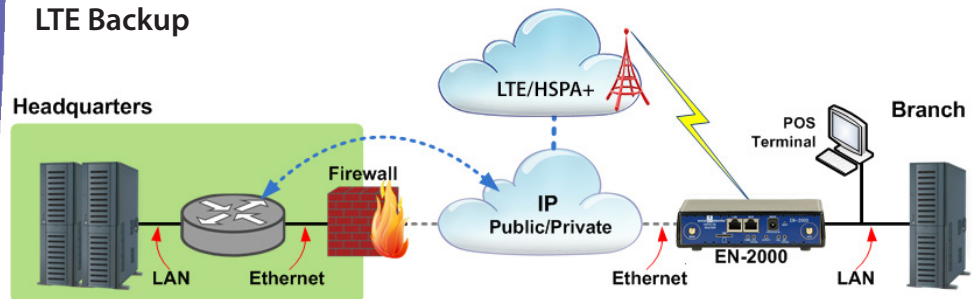The EN-2000™ M2M router supports traditional broadband and cellular data networks including cable and Ethernet. Disaster recovery and business-continuity failover/failback are standard. When programmed for failover, the EN-2000™ detects network failures and seamlessly switches to LTE or WAN as programmed – keeping the network online. In support of these features the EN-2000™ M2M router provides multiple VPN tunnels and VLAN support. The EN-2000™ M2M router enables quick Business Continuity/Disaster Recovery implementation with existing 3rd party routers using standards based VRRP which enables Automatic Failover and Fallback without the need for IT personnel involvement. Upon a link failure, traffic moves automatically to a working link, or to a new connection as programmed. The license free embedded router software can be set up to broadcast to multiple operation centers with traffic shaping ensuring maximum performance, while reporting alarms to a NOC.

EN-2000™
Prime Applications

- *Business Continuity*
- *LTE Broadband Router*
- *Cellular/IP Pass Through*
- *VRRP Backup*

Standard EN-2000™ Features

- *Distributed Enterprise Support*
- *Small footprint*
- *License free, VRRP, DMNR, GRE and IPsec VPN (tunnel, NAT-T, and Dead Peer Detection)*
- *High throughput via wireless LTE/HSPA+*
- *Automatic Failover and Fallback from broadband transport with Alarm reporting*

LTE Backup

Failover/Business Continuity

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EN-2000™

TECHNICAL SPECIFICATIONS

GENERAL FEATURES
- Business Continuity/Disaster Recovery over WAN and LTE connections
- Secure IPsec router
- Modem/Cellular IP Pass Through/Bridge Operation
- QoS enforcement to prioritize critical traffic
- Configuration servers to manage and update routers centrally
- 100 - 240VAC Autoranging, 47-63Hz Power Supply (12V input)
- Power Consumption - 3.5 watts nominal, 4 watts transmitting

SECURITY APPLIANCE FEATURES
- Stateful inspection layer 3 firewall, NAT, NAT Traversal
- HTTPS-SSL
- SSH (Secure Shell)
- IPsec with AES 256 and 3DES 4 tunnels max
- Generic Router Encapsulation GRE (RFC 1701)
- Internet Key Exchange - IKE V1, V2

TRANSPORT PROTOCOLS

IP
- Static routing
- DHCP client/server
- IP QoS and traffic prioritization
- IP fragmentation/reassembly
- IP routing over VPN; TCP and UDP
- 802.1q VLAN tagging
- Dead Peer Detection
- Virtual Redundant Routing Protocol (VRRP) between two routers

WAN
- IP over Ethernet
- Asynchronous PPP
- MLPPP
- DMNR
- PPPoE

PHYSICAL FEATURES STANDARD (Front Panel)
- LEDs for cell module, system status, network status, and power
- LEDs for LAN/WAN and Cellular signal strenghth indication
- One 10/100 Mbit/s Ethernet RJ-45 (WAN/LAN) - WAN is factory default
- One 10/100 Mbit/s Ethernet RJ-45 (LAN)
- Reset Switch
- Two antenna SMA connectors for embedded internal cellular radio
- Accessible SIM Slot
- Power Input

MANAGEMENT
- GUI Web Management
- SSH (Secure Shell)
- SNMPv3 manageability
- HTTP/HTTPS - web access interface
- Telnet Syslog

MECHANICAL
- **Height:** 1.6 inches/40 mm
- **Width:** 5.7 inches/145 mm
- **Depth:** 4 inches/100 mm
- **Weight:** 1 lb. (0.45 kg)

ENVIRONMENTAL (Temperature)
- **Operating:** -20 C to +65 C (Extended Temperature Commercial)
- **Storage:** -40 C to +85 C
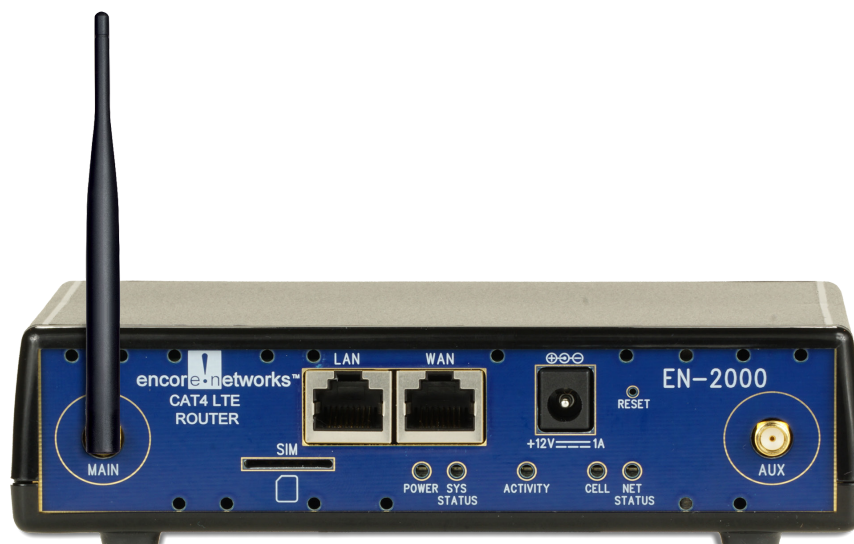- **Humidity:** 5% to 95%, non-condensing

STANDARDS COMPLIANCE (ROHS Compliant)
- EMC
- FCC Part 15
- EN 55011/CISPR II

PRODUCT SAFETY
- UL/CSA 60950-1, EN 60950-1
- CAN/CSA-C22.2 No. 60950-1-03

EN-2000™

Specifications subject to change without notice