![encore networks logo]

EN-2000™

4G LTE BROADBAND ROUTER

The Encore Networks EN-2000™ is a high performance low-cost broadband router designed for LTE Cellular networks. Built for the Internet of Things, this compact IP M2M router provides license free IPsec, VPN, Firewall, Ethernet and IP interworking. The EN-2000™ can service the needs of mission critical business and enterprise applications.

The EN-2000™ supports high-availability in fixed or portable locations by supplementing traditional broadband networks like DSL, cable, or MPLS/Ethernet with a high-speed LTE connection. When programmed for failover, the EN-2000™ detects hardwire network failures and seamlessly switches to LTE as programmed, keeping the network online. With standards based VRRP, the EN-2000™ can support automatic failover and failback when the original connection comes back online. The EN-2000™ M2M router provides multiple VPN tunnels and VLAN support as well as VRRP with no additional licensing fees. It can also be set up to broadcast traffic to multiple operation centers using traffic shaping ensuring maximum performance, while also reporting alarms to a NOC.
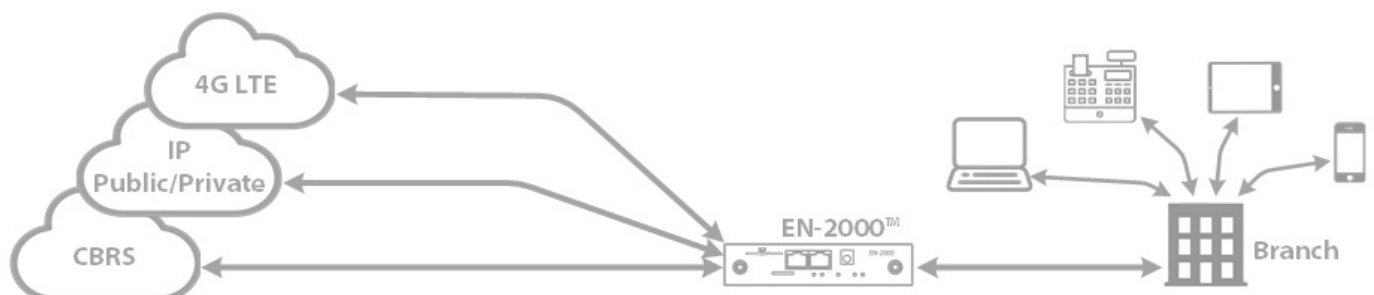
The EN-2000™ can also operate as a stand-alone cellular solution to support a branch office or location. With the high speeds offered by cellular LTE networks normal business can be conducted without terrestrial connections. This makes the EN-2000™ an ideal choice for new construction, temporary branch offices or primary internet while awaiting terrestrial installation. The EN-2000™ can be enabled with optional WiFi which can be used to further enhance the local network.

Exceptional Features at a Reasonable Price

The EN™ series of cellular routers provides powerful features at a value price. The EN-2000™ is the flagship of this series and offers exceptional value. All the EN™ series routers come with a three-year hardware warranty, an intuitive GUI interface, built in Firewall, VPN support and advanced IP features including DMNR, GRE, and IPsec.

In addition, all of the EN™ Series routers can be monitored and managed with Encore's cloud hosted Enterprise Management System, enCloud™, or customer premises server based enSite™. Both offer many features that will make managing your entire network of EN™ Series routers easier, including Cellular data limit enforcement for individual devices and group data plans, included firmware updates, no touch deployment for new hardware, and reseller and customer tiers to assist in delivering managed network services for multiple customers.

EN-2000™ Enterprise Applications

- Business Continuity/Wireless Failover
- Mobile/Remote Office
- Primary Cellular connectivity
- Video Surveillance
- Kiosks
- Digital Signage
- Remote Monitoring
- Distributed Enterprise

EN-2000™ Standard Features

- Supports both wireless & wired transport
- 4G LTE
- CBRS
- License free, VRRP, DMNR, GRE & IPsec
- VPN (tunnel, NAT-T, & Dead Peer Detection)
- Pass Through/Bridge Operation for direct connect to the Internet
- Two Ethernet ports, either LAN/LAN or WAN/LAN
- Small Footprint, Low Power Consumption
- Enhanced traffic grooming using QoS
- Data Traffic types can be assigned to specific links, IP addresses
- Distributed Enterprise Support for a variety of networks providing "always on" service

Cloud or On Premises Management with enCloud™ or enSite™ Enterprise Management Systems

TECHNICAL SPECIFICATIONS

GENERAL FEATURES	Broadband Router Secure VPN router Modem/Cellular IP Pass Through/Bridge Operation QoS enforcement to prioritize critical traffic
SECURITY APPLIANCE FEATURES	Stateful inspection layer 4 firewall, NAT, NAT Port Forward HTTPS-SSL IPsec with AES 256 and 3DES 4 tunnels max Dead Peer Detection plus NAT Traversal Generic Router Encapsulation GRE (RFC 1701) Internet Key Exchange - IKE V1, V2 OpenVPN
IP TRANSPORT PROTOCOLS	Static routing DHCP client/server IP QoS and traffic prioritization IP fragmentation/reassembly IP routing over VPN; TCP and UDP IPv6 Support Virtual Redundant Routing Protocol (VRRP) Asynchronous PPP DMNR PPPoE

CELLULAR	AT&T; LTE CAT 4 150/50 Mbits – Bands, 2, 4, 5, 17 – UMTS 850/1900 T–Mobile; LTE CAT 4 150/50 Mbits – Bands, 4, 12 – UMTS 850/1900 Sprint; LTE CAT 4 150/50 Mbits – Bands 25, 26 and 41 (1900/800/2500) MHz Verizon; LTE CAT 4 150/50 Mbits – Bands 4, 13	Private LTE Band 8 CBRS 3.5 MHz Band 48

WIFI	Support for 2.4 and 5 GHz Autoselect between 802.11a/b/g/n WEP or WPA-PSK encryption WiFi Hotspot
PHYSICAL FEATURES	LEDs for cell module, system status, network status, and power LEDs for LAN/WAN and Cellular signal strength 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 SMA antenna connections for embedded internal cellular radio Two SMA antenna connections for detachable WiFi antennas Two Accessible SIM Slots Power Input Optional DIN Rail Clip
MANAGEMENT	enCloud™ Device Management System - Cloud Based enSite™ Device Management System - Customer Premises Server Based GUI Web Management SSH (Secure Shell) SNMPv3 manageability DMNR, PNTM 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	Operating: -20° C to +70° C (Extended Temperature Commercial) Storage: -40° C to +85° C Humidity: 5% to 95%, non-condensing
STANDARDS COMPLIANCE	RoHS Compliant CE Compliant EMC, FCC Part 15, EN 55011/CISPR II 100 - 240VAC Autoranging, 47-63Hz Power Supply (12V input) Power Consumption - 3.5 watts nominal, 7 watts transmitting

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Specifications subject to change without notice