

EN-2000™

Verizon 4G LTE Only Broadband Router with Wi-Fi

The Encore Networks EN-2000™ is a high performance ultra-low cost M2M VPN network router designed for the Verizon Wireless LTE public and private 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 Verizon LTE cell module and an integral Wi-Fi access point for 802.11n at 5 GHz. 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 for wired and wireless LANs.

The EN-2000™ M2M router supports traditional broadband and cellular data networks including DSL, 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 Failback 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.

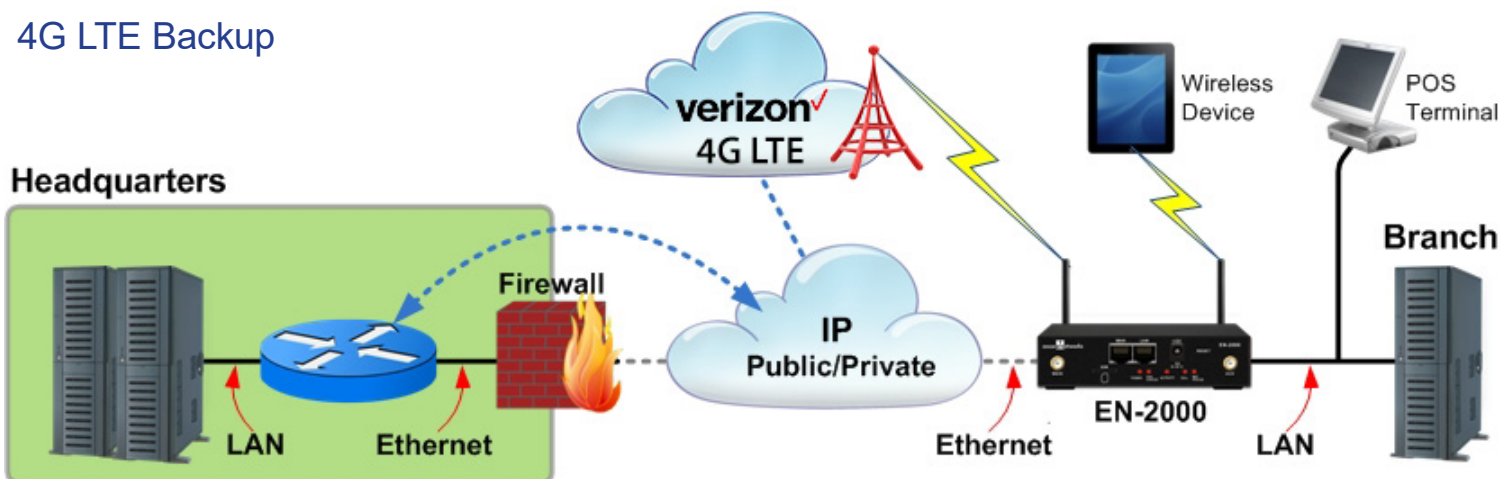
Prime Applications

- Business Continuity
- LTE Broadband Router
- Cellular/IP Pass Through
- VRRP Backup
- Reliable Wi-Fi Hotspot

Standard EN-2000™ Features

- Full Wi-Fi access point for 802.11n (5GHz)
- Small footprint
- License free, VRRP, DMNR, GRE and IPsec VPN (tunnel, NAT-T, and Dead Peer Detection)
- High throughput via Verizon Wireless LTE
- Automatic failover and failback from broadband transport with Alarm reporting
- 4G LTE Modem/Cellular Pass Through/Bridge Operation
- Supports both wireless and wired Internet connections (two Ethernet ports for LAN/LAN or WAN/LAN)
- Shock and vibration resistant
- Enhanced traffic grooming using QoS and CoS traffic types assigned to specific links
- Low power consumption

4G LTE Backup



Failover/Business Continuity

Consult your area sales representative for price availability.

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, 7 watts transmitting		
Security Appliance Features	Stateful inspection layer 3 firewall, NAT (Network Address Translation) NAT Traversal		
	HTTPS-SSL		
	SSH (Secure Shell)		
	IPsec with AES 256 and 3DES 4 tunnels max		
	Generic Router Encapsulation GRE (RFC 1701)		
Transport Protocols	WAN	IP over Ethernet	
		Asynchronous PPP	
		MLPPP	
		DMNR	
		PPPoE	
	IP LAN	Static routing	
		DHCP client/server	
		IP QoS and traffic prioritization	
		IP fragmentation/reassembly	
		IP routing over VPN; TCP and UDP	
		802.1q VLAN tagging	
	Wi-Fi	Virtual Redundant Routing Protocol (VRRP) between two routers	
Dead Peer Detection			
Autoselect between 802.11a and 802.11n access point in the less-crowded 5 GHz band			
Physical Features Standard	Front Panel	Two SMA connectors to mount antennas on the router	
		Configuration managed remotely	
		Choice of WEP or PSK encryption modes	
		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	
	Back Panel	One 10/100 Mbit/s Ethernet RJ-45 (LAN)	
		Reset Switch	
		Two antenna SMA connectors for embedded internal cellular radio	
		Accessible SIM Slot	
Management	GUI Web Management	HTTP/HTTPS - web access interface	
	SSH (Secure Shell)	Telnet	
	SNMPv3 manageability	Syslog	
Environmental (Temperature)	Operating: -20 C to +65 C (Extended Temperature Commercial)		
	Storage: -40 C to +85 C		
	Humidity: 5% to 95%, non-condensing		
Mechanical	Height: 1.6 inches/40 mm, Width: 5.7 inches/145 mm, Depth: 4 inches/100 mm, Weight: 1 lb. (0.45 kg)		
Standards Compliance RoHS Compliant	EMC	FCC Part 15	Product Safety
		EN 55011/CISPR II	

Certified by
verizon

EN-2000™



Specifications subject to change without notice