



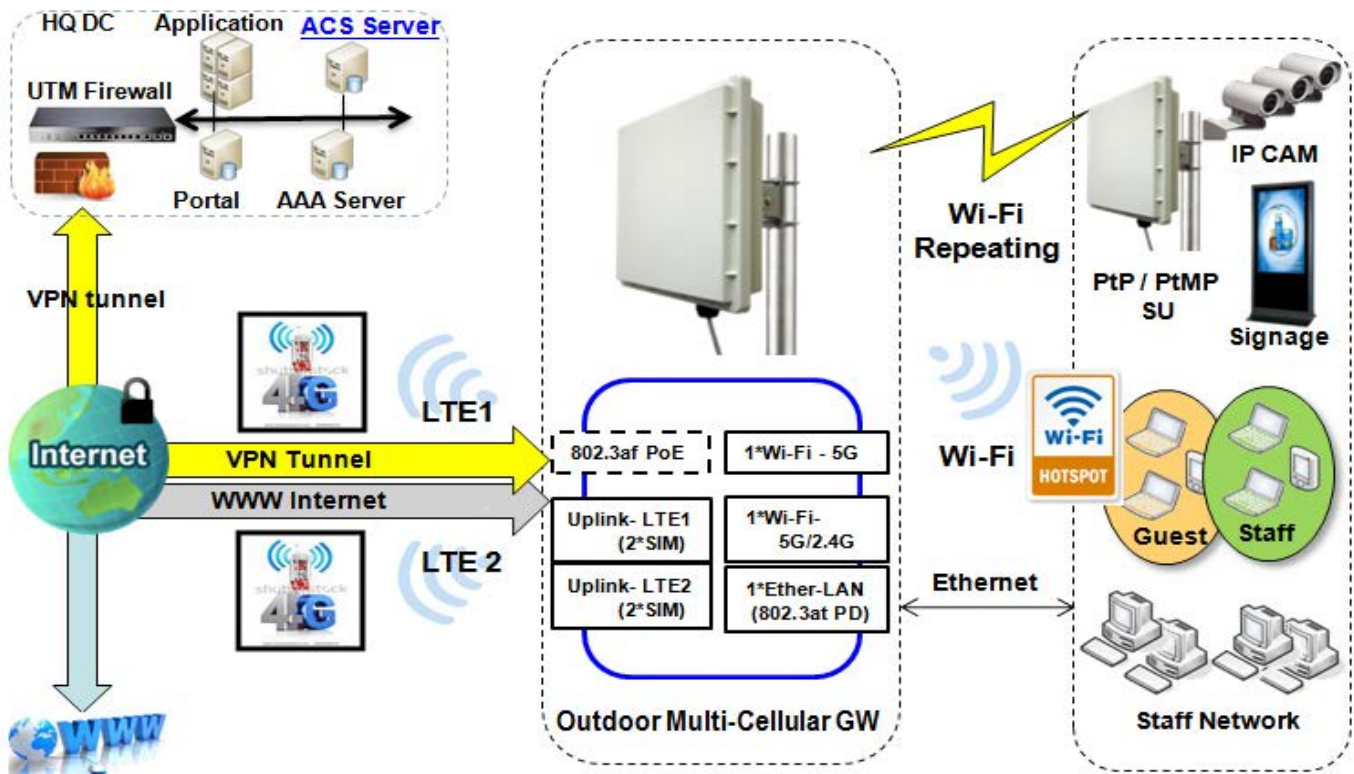
LYNX Series – Outdoor CPE Single/Dual LTE Router

P/N: LYNX-gigaCOMM-OD-2LTE-WiFi-001

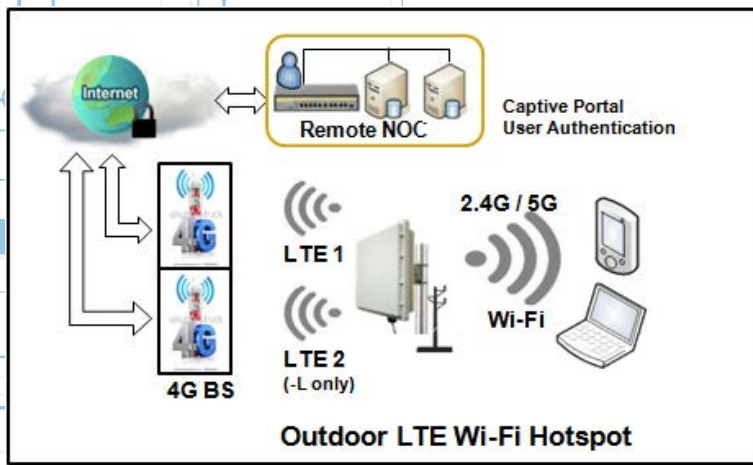
Features:

- Outdoor Multi-Cellular Gateway for Rural Broadband, Public Hotspot, and Outdoor Access applications.
- Equipped with 1 or 2 dual-SIM LTE radios, provide WAN failover / load balance function for highly reliability.
- WiFi Compliance 802.11ac 2T2R (5GHz) + 802.11ac/n 2T2R (5G/2.4GHz); Multiple (8+8) SSIDs.
- 1*GE LAN PoE-powered port for local network connectivity.
- Advanced networking features, including: NAT/Routing and IPv6 is supported.
- IPSec, OpenVPN, PPTP and L2TP VPN supports up to 32 concurrent tunnels (100Mbps throughput in IPSec).
- QoS and Bandwidth management for optimal bandwidth usage.
- Firewall with SPI and IPS for advanced network security.
- SNMP, SSH, Telnet CLI, and TR069 for local and remote device management.
- IP67-rated enclosure with excellent dust/rain protection, anti-UV and robust pole / wall mounting kit.
- N-type antenna connectors for various antenna options and allowing for the best coverage.
- Lowered deployment cost with integrated Power over Ethernet.

Connection Diagram:



Applications:



Application:

Providing Internet connectivity to remote locations with little or no infrastructure.

Description:

- The Outdoor LTE gateway can be securely installed on a pole or wall mounted in a remote location.
- With a PoE PD powered gateway, the device can be installed without the need for separate power to be supplied.
- The FME antenna ports allow the system Integrator to install high-gain antennae for the LTE cellular network to gain maximum signal integrity and the best performance.
- Wi-Fi antennae are also externally mounted for best performance and coverage.
- The design is robust and designed for harsh outdoor environments.

Specifications:¹

Device Interfaces

Uplink:	2*Embedded LTE (2+2 microSIM),
LAN-RJ45:	1*RJ45 GE (with 802.3at PD)
LAN-Wi-Fi:	Concurrent Dual Band with 802.11ac 2T2R (5GHz), 802.11ac/n 2T2R (5GHz/2.4GHz selectable)
Storage & Log:	1*embedded 8GB Flash
Cellular Band 2:	LTE-FDD: 700/850/1800/2100/2600 MHz UMTS: 850/2100 MHz

Antenna (int.):	1*11dBi 2T2R dir. antenna (Wi-Fi 5GHz),
Antenna (ext.):	2*N-Type (Female) for ext. LTE ant. (LTE 1) 2*N-Type (Female) for ext. LTE ant. (LTE 2) 2*N-Type (Female) for 5GHz / 2.4GHz (Wi-Fi)
Power Source:	1*802.3at PoE, or custom Passive PoE Injector

WAN Functions

WAN:	Multiple WANs, Failover/Load Balance, Bridge
Cellular:	2G/3G/LTE IPv4/IPv6, IP Pass-through, LTE-LTE failover/fallback
IPv6:	Dual Stack, 6-in-4, 6-to-4

Basic Functions

Ethernet:	LAN IP, Subnet Mask
WiFi System:	802.11n 2T2R MIMO (2.4GHz), 802.11ac 2T2R MIMO (5GHz)
WiFi Operation:	AP Router, WDS, WDS Hybrid Modes
WiFi Security:	WEP,WPA,WPA2,WPA-PSK,WPA2-PSK,802.1x
VLAN:	Tag-based
NAT:	ALG, Special AP, DMZ Host, Virtual Server/Computer, PPTP/L2TP/IPSec Pass-through
Routing:	Static, Dynamic: RIP1/RIP2, OSPF, BGP
QoS:	Policy-based Bandwidth Control and Packet Flow Prioritization

Management

Configuration:	Web UI, Telnet/SSH CLI, Console CLI
Network:	SNMPv3/MIB, TR-069
Event & Handler:	SMS, Syslog, SNMP Trap, Email Alert, Reboot

Cellular Functions

Connectivity:	LTE-LTE & SIM-SIM Failover, 24x7 Reliability
APN Mgmt.:	Auto-Detection, User Defined Priority, Manual Operator/Service Type/Band Selection
Network Scan:	Monitor, Usage Warning, Connection, Restricted
Data Plan:	Send, Receive, Forward, Event Notify, Device Management
SMS:	Manual/USSD Profile
USSD:	

Advanced Functions

Firewall:	SPI Firewall with Stealth Mode, IPS
Access Control:	MAC Address Control, Packet/content/application Filters, URL Blocking
QoS & BWM:	Policy-based Bandwidth Control and Packet Flow Prioritization
VPN Tunneling:	IPSec, PPTP, L2TP, GRE, OpenVPN, DMVPN, L2TP over IPSec, Tunneling; Tunneling with Full Tunnel, Tunnel Failover
VPN Scenario:	Site to Site, Site to Host, Host to Site, Host to Host, Hub and Spoke, DMVPN, Dynamic VPN
VPN Capability:	IPSec: up to 32 tunnels
Redundancy:	VRRP

Applications

Storage:	Syslog Records
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Systems

System:	Status & Statistics, Tools, Scheduling, FW Up grade, Backup & Restore Settings, Watch Dog
User Auth.:	Captive Portal, RADIUS, X.509 Grouping Group by Host, File Extension, Application

Dimension / Enclosure

Device (LxWxH):	254x254x84mm (w/o mounting kit)
Material:	IP67 Plastic (PC + anti-UV) Panel + Metal Base

Environment

Operation Temp.:	-30°C ~ +70°C ³
Storage Temp.:	-40°C ~ +85°C
Humidity:	10% ~ 95% (non-condensing)

Notes:

1. Specifications are subject to change without notice.
2. Supported cellular bands are dependent on regional hardware versions.
3. Cellular & Wi-Fi performance will be degraded if operating in higher ambient temp's. Operating Temps are determined by cellular & Wi-Fi modules selected for region.