



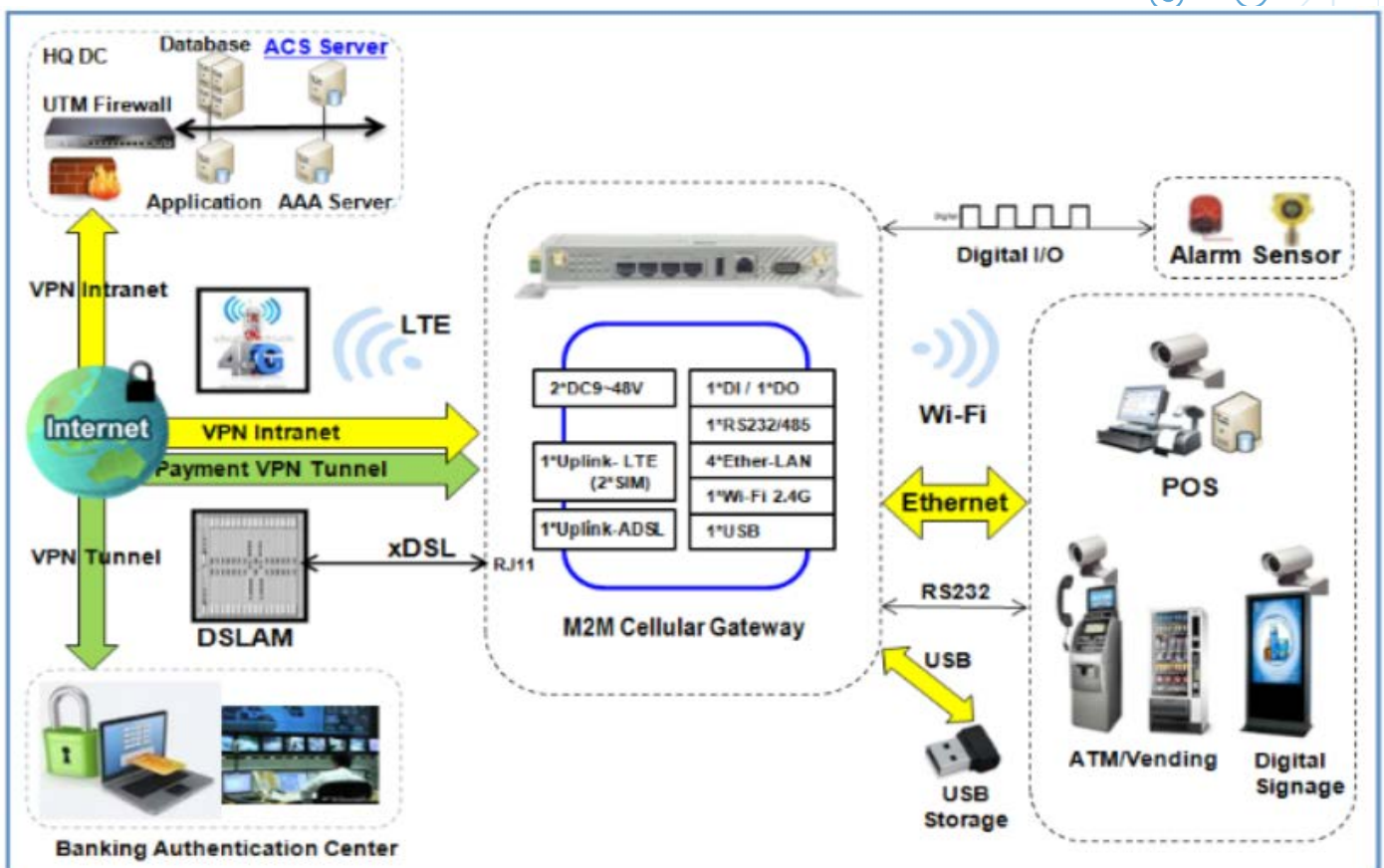
LYNX Series – Multi-Function M2M LTE Router

P/N: LYNX-multiCOMM-LTE-WiFi-001

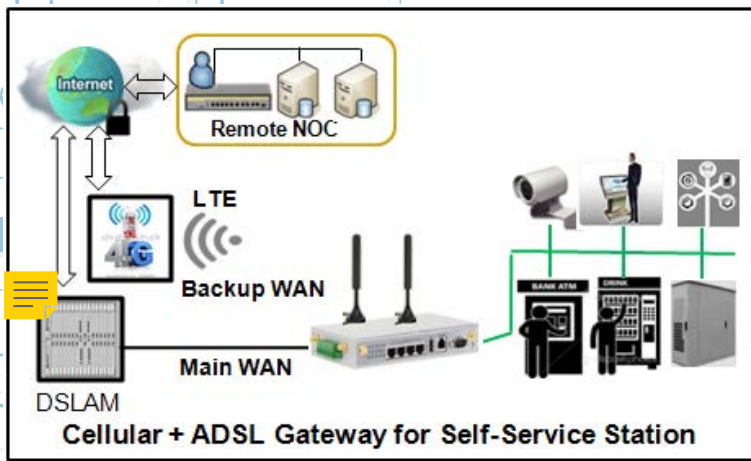
Features:

- Used in branch-office connectivity – multi-WAN, or in business continuity applications – WAN failover.
- M2M LTE Cellular Router for Retail POS, ATMs, Vending Machines, and Digital Signage applications. Optional ADSL.
- Equipped with Dual-SIM LTE, WiFi, LAN/WAN, providing WAN failover / load balance functions for highly reliable on premise, always on connectivity.
- WiFi Compliance N300; Multiple (8) SSIDs for privilege group devices or users.
- 4 x LAN ports with 802.1pq tag based and port based VLANs.
- 1 x DB9 (RS232/RS485) for out of band management, and interfacing to external assets.
- 1 x DI, 1 x DO for external device control or external event reporting.
- Includes advanced networking protocols: NAT/Routing/ incl. IPv6 compatible for all IP networks.
- IPSec, OVPN, GRE, PPTP, L2TP VPN support up to 8 concurrent tunnels with 70Mbps throughput (IPSec).
- Stateful IPTables Firewall with SPI and IPS, prevents hacker attacks and enhances network efficiency.
- Remote Management - SNMP, Telnet CLI, SSH, and TR-069 for large scale management, incl. FOTA updates.
- Advanced QoS and Bandwidth management for optimal bandwidth usage.

Connection Diagram:



Applications:



Application:

To deploy a cellular gateway for Self Service applications.

Description:

The easiest way to deploy a cellular gateway for connecting your self-service equipment (like ATM, Kiosk, and Digital Signage) to a remote enterprise system that requires highly available and extreme reliability.

Uses LTE/WiFi as primary or secondary WAN Internet connections, with plug & play operations and interoperability with all networks. ADSL option.

A cost-effective product with an industrial robust design for secure internet access, variable voltage ranges, and extended environmental operation.

Remotely managed by an ACS server or customers' own management SW.

Specifications:¹

Device Interfaces

Uplink:	1*Embedded LTE (dual SIM)
LAN-RJ45:	4*RJ45 FE
LAN-Wi-Fi:	802.11n 2T2R
Comm. Bus:	1*DB9 RS232/RS485,
I/O:	1*DI ("Logic 0": 0~2V, "Logic 1": 5V~30V), 1*DO (Relay Mode, up to 30V / 1A)
Mgmt. Port:	1*RJ12 RS232 (Console)
Storage & Log:	1*USB 2.0
Cellular Band ² :	LTE: 700/850/900/1800/2100/2600 MHz, UMTS: 850/900/1900/2100 MHz, GPRS/EDGE: 850/900/1800/1900 MHz
Antenna:	2*3dBi detachable ant. (3G/4G), 2*5dBi detachable ant. (WiFi)
Power Source:	Dual DC 9V~48V redundant power input, AC/DC PSU supplied.

WAN Functions

WAN:	Multiple WANs, Failover/Load Balance, Configurable 4G/WAN/WiFi
Cellular:	3G/LTE IPv4/IPv6, IP Pass-through
ADSL:	EoA, IPoA, PPPoA, PPPoE
IPv6:	Dual Stack, 6-in-4, 6-to-4

Basic Functions

Ethernet:	LAN IP, Subnet Mask
WiFi System:	802.11n 2T2R MIMO 300Mbps (2.4GHz)
WiFi Operation:	AP Router, WDS, WDS Hybrid Modes
Mode & Func.:	Multi SSID WPS WMM
WiFi Security:	WEP,WPA,WPA2,WPA-PSK,WPA2-PSK,802.1x
VLAN:	Port-based, Tag-based
NAT:	ALG, Special AP, DMZ Host, Virtual Server/Computer, PPTP/L2TP/IPSec Pass-through
Routing:	Static, Dynamic: RIP1/RIP2, OSPF, BGP
Virtual COM:	RFC2217, TCP Client, TCP Server, UDP

Management

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

Cellular Functions

Connectivity:	SIM-SIM Failover / Failback, Reliability 24/7
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:	Send, Receive, Forward, Event Notify, Device Management
USSD:	Manual/USSD Profile

Advanced Functions

Firewall:	SPI Firewall with Stealth Mode, IPS
Access Control:	MAC Address Control, Packet 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;
VPN Scenario:	Tunneling with Full Tunnel, Tunnel Failover Site to Site, Site to Host, Host to Site, Host to Host, Hub and Spoke, DMVPN, Dynamic VPN
VPN Capability:	IPSec: up to 8 tunnels
Redundancy:	VRRP

Applications

Storage:	Syslog Records
----------	----------------

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):	187x110x31mm (w/o mounting kit) 225x110x39mm (with mounting kit)
-----------------	---

Environment

Operation Temp.:	-30°C ~ +70°C ³ (components are -40°C to +85°C)
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.