



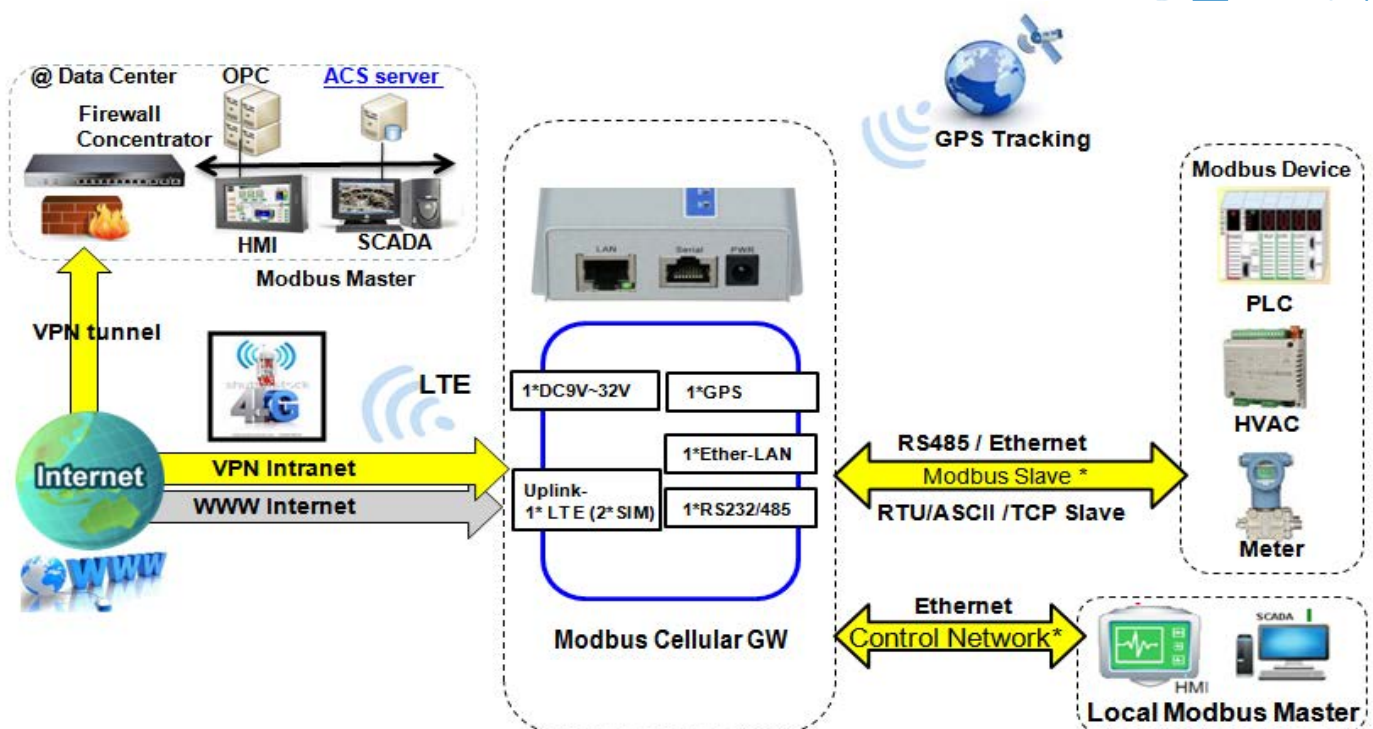
## LYNX Series – Industrial M2M LTE Router

P/N: LYNX-miniCOMM-LTE-001

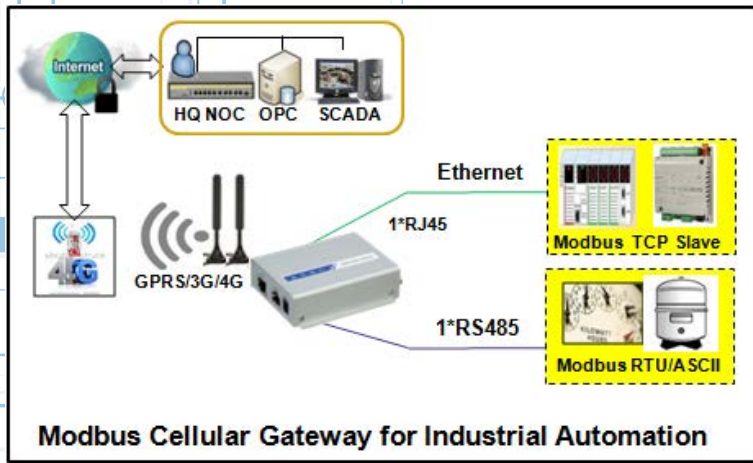
### Features:

- M2M LTE Cellular Gateway for Industrial, Remote Telemetry, Retail POS, and Self-Service Stations, like ATM, vending machine, and digital signage applications.
- Equipped with Dual-SIM LTE radio, supporting ANZ LTE (B28/B5 etc...) & 3G bands.
- 1 x RJ45 LAN port for connecting to remote assets.
- 1 x RJ45 (RS232/RS485) Serial Port for remote console, out of band management, and for interfacing to external assets via RS232 or 485, including Modbus protocols.
- With optional GPS for location based applications.
- Includes advanced networking protocols: NAT/Routing/ incl. IPv6 compatible for all IP networks.
- IPSec, OVPN, GRE, PPTP, L2TP VPN support up to 3 concurrent tunnels with 20Mbps throughput (IPSec).
- Stateful IPTables Firewall with SPI and IPS, prevents hacker attacks and enhances network efficiency.
- Remote Management – HTTP/HTTPS, SNMP, Telnet CLI, SSH, and TR-069 for large scale management, incl. FOTA updates.
- 9-32V DC power supply input, via terminal block (supplied).

### Connection Diagram:



## Applications:



### Application:

To deploy a cellular router for remote assets or control equipment.

### Description:

The easiest way to deploy a cellular router to connect your remote assets, or remote industrial equipment. Uses LTE as the primary Internet connection, dual SIM's allow for failover from Primary to Secondary SIM or vice versa.

This is 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:<sup>1</sup>

### Device Interfaces

<b>Uplink:</b>	1*Embedded LTE (dual SIM)
<b>LAN-RJ45:</b>	1*RJ45 FE
<b>Comm. Bus:</b>	1*RJ45 (RS232/RS485)
<b>GNSS:</b>	Optional GPS
<b>Storage &amp; Log:</b>	1*USB 2.0
<b>Cellular Band<sup>2</sup>:</b>	LTE-FDD: 700/850/1800/2100/2600 MHz UMTS: 850/2100 MHz,
<b>Antenna:</b>	2*3dBi detachable ant. (3G/4G), (supplied)
<b>Power Source:</b>	DC 9V~32VDC (via terminal block - supplied) (AC/DC PSU also supplied)

### WAN Functions

<b>WAN:</b>	Cellular WAN, Dual SIM Failover
<b>Cellular:</b>	3G/LTE IPv4/IPv6, IP Pass-through
<b>IPv6:</b>	Dual Stack

### Basic Functions

<b>Ethernet:</b>	LAN IP, Subnet Mask
<b>NAT:</b>	ALG, Special AP, DMZ Host, Virtual Server/Computer, PPTP/L2TP/IPSec Pass-through
<b>Routing:</b>	Static, Dynamic: RIP1/RIP2, OSPF, BGP
<b>Modbus:</b>	Modbus TCP Master/Slave, Modbus RTU/ASCII Master/Slave
<b>Virtual COM:</b>	RFC2217, TCP Client, TCP Server, UDP

### Management

<b>Configuration:</b>	HTTP/HTTPS, Telnet CLI, Console CLI, SSH
<b>Network:</b>	SNMPv3, TR-069
<b>Event &amp; Handler:</b>	SMS, Syslog, SNMP Trap, Email Alert, Reboot

### Cellular Functions

<b>Connectivity:</b>	SIM-SIM Failover / Failback, Reliability 24/7
<b>APN Mgmt.:</b>	Auto-Detection, User Defined Priority, Manual Operator/Service Type/Band Selection
<b>Network Scan:</b>	Monitor, Usage Warning, Connection, Restricted
<b>Data Plan:</b>	Send, Receive, Forward, Event Notify, Device Management
<b>SMS:</b>	Send, Receive, Forward, Event Notify, Device Management
<b>USSD:</b>	Manual/USSD Profile

### Advanced Functions

<b>Firewall:</b>	SPI Firewall with Stealth Mode, IPS
<b>Access Control:</b>	MAC Address Control, Packet Filters, URL Blocking
<b>VPN Tunneling:</b>	IPSec, PPTP, L2TP, GRE, OpenVPN, DMVPN, L2TP over IPSec; Tunneling with Full Tunnel, Tunnel Failover
<b>VPN Scenario:</b>	Site to Site, Site to Host, Host to Site, Host to Host, Hub and Spoke, DMVPN, Dynamic VPN
<b>VPN Capability:</b>	IPSec: up to 3 tunnels
<b>Redundancy:</b>	VRRP

### Applications

<b>Storage:</b>	Syslog Records
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### Systems

<b>System:</b>	Status & Statistics, Tools, Scheduling, FW Upgrade, Backup & Restore Settings, Watch Dog
<b>User Auth.:</b>	Captive Portal, RADIUS, X.509

### Dimension / Enclosure

<b>Device (LxWxH):</b>	93x90x27mm
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### Environment

<b>Operation Temp.:</b>	-30°C ~ +70°C <sup>3</sup> (components are -40C to +85C)
<b>Storage Temp.:</b>	-40°C ~ +85°C
<b>Humidity:</b>	10% ~ 95% (non-condensing)

### Warranty

12 months carry in. Extended warranty can be offered, pls call.

#### Notes:

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