The ComNet CNFE3TX2CXMS(U,E) is an edge Cellular VPN Gateway with 2 10/100TX Ports (1 × LAN, 1 × WAN) and 1 standard SIM card slot. It supports 802.1X and MAC filter for security control. The Gateway can be configured to operate in 3 modes: Dynamic/Static IP route, PPPoE authentication, and Modem dial up. The units can be powered by an IEEE 802.3af PoE compliant device on port 1 or through the 4-Pin terminal block with dual DC Inputs. The Gateways are DIN Rail mountable and feature a rigid IP-30 housing.

FEATURES
› Supports 802.1X Authentication
› HTTPS Support for Secure Management
› 4G LTE Modem Built In
› OpenVPN, IPsec VPN, PPTP VPN
› NAT Support (Virtual Server, Port Trigger, DMZ and UPnP)
› 1KV Isolation for PoE PD Port
› DIN-Rail and Wall Mountable
› Event Warning by Syslog, Email and SNMP Trap
› Cellular Antennas included
› Certified for AT&T Networks

APPLICATIONS
› Remote locations where network access is required
› Wireless Perimeter Surveillance
› Temporary Network Surveillance Deployments
› Site to Site VPN
› Redundant Gateway
› Electrical substation SCADA and distribution automation networks; protective relaying systems; power transmission & distribution systems; remote/unattended wind farm, hydroelectric, and solar/photovoltaic power generation facilities; and other electrical utility-specific applications
› NERC-CIP-014 compliance for perimeter security, surveillance monitoring, and controlled access to electrical substations and power generating facilities, and other critical infrastructure/high value, mission-critical sites and assets
› Industrial/Factory Automation & Process Control SCADA Networks
› Distribution Automation: Remote status indication, monitoring, and control of reclosers, capacitor banks, voltage regulators, and other remotely-located electrical utility-specific equipment, via the internal cellular radio link
› Integrated IP-Video, VOIP, and Data Transmission Networks
› Wastewater treatment plants, and suppliers of potable drinking water
› ITS/transportation closed-loop signalization and VMS/VDS/surveillance/incident detection systems
› City Center security and surveillance monitoring
› Military, defense, and government communications networks
CNFE3TX2CXMS(U,E)

4G LTE Cellular VPN Gateway

**SPECIFICATIONS**

**Networking**

- **Cellular Standards:** GSM, GPRS, EGPRS, EDGE, WCDMA, HSDPA, HSUPA, LTE
- **Bands:**
  - USA: LTE 1900(B2), 1700(B4), 850(B5) 700(B13), 1900(B25) MHz
  - European: LTE 2100(B1), 1800(B3), 2600(B7) 900(B8), 800(B20) MHz
- **SIM Card:** Standard (15 × 25 mm)

**Data Rates**

- **Category 3 Downlink:**
  - 100 Mbps (20 MHz bandwidth)
  - 50 Mbps (10 MHz bandwidth)
- **Category 3 Uplink:**
  - 50 Mbps (20 MHz bandwidth)
  - 25 Mbps (10 MHz bandwidth)

The quoted data rates are carrier dependant and will be determined by network and signal strength along with any other carrier imposed restrictions or limitations. The actual data rate will also be limited by any encryption method implemented such as a VPN etc. As such the data rates are outside of ComNet's control and cannot be guaranteed.

**Connectors**

- **10/100 Ethernet:** 2 × RJ-45
- **Cellular Antenna:** 2 × SMA Female
- **Power:** Terminal Block

**Power**

- **Operating Voltage Range:** 12 to 48 VDC
- **Power Consumption:** 3 W Max
- **PD Power:** IEEE802.3af PD compliant

**Mechanical**

- **LED Indicators:** Dual Power, PoE, WAN, Dual Ethernet Link/Act
- **Current Protection:** Automatic Repeatable
- **Circuit Board:** Solid-State Current Limiters
- **Size:** 3.17 × 1.57 × 3.74 in (8.06 × 4 × 9.5 cm)
- **Shipping Weight:** <2 lb / 1 kg

**Environmental**

- **MTBF:** >100,000 hours
- **Operating Temp:** -40˚C to +60˚C
- **Storage Temp:** -40˚C to +85˚C
- **Relative Humidity:** 5% to 95% (non-condensing)

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNFE3TX2CXMSU</td>
<td>4G LTE Cellular Gateway, FCC certified for North America</td>
</tr>
<tr>
<td>CNFE3TX2CXMSL</td>
<td>4G LTE Cellular Gateway, ETSI certified for European Union</td>
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</tbody>
</table>

**Included Accessories:**

- 2 × SMA Female Antennas (Cellular), DIN-Rail Mount, and Wall Mount
- DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included in North America only, for benign 0 to 50˚C applications. Hardened power supply available, consult factory)

**Options:**

- [1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)
- 24 V or 48 VDC DIN Rail power supply (Extra Charge, Consult Factory)

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Note: In a continuing effort to improve and advance technology, product specifications are subject to change without notice.