

Multi-Link 4G LTE Cellular DataCom System

Designed for any type of M2M cell data collection and remote site equipment access, the ML-4G LTE CDS is a highly customizable communications hub featuring a high speed 4G LTE gateway that is certified on all major US cellular networks. Improves communications reliability to remote cell assets and future proofs for later upgrades.

The standard single 10/100 Mbps Ethernet port can be expanded to a combination of four Ethernet ports (PoE or non-PoE), RS232 & RS485 Serial ports, and even Wi-Fi so that multiple connectivity requirements can be satisfied. The system's power input also has two options to choose from, depending on installer preference and existing electrical wiring.

Additional system configurations are available to enhance optimal performance. M2M cell signal amplification can be useful in poor signal environments. A two outlet AC rebooter can be included to give network personnel more control over connected equipment, to automatically reboot on a daily schedule, or when a network fault is detected. Lastly, a 12VDC battery backup can be added. Multiple customized battery options are available dependent on application requirements, output voltage, and reserve capacity.

All datacom equipment and electrical power is housed in an industrial grade 10"x 8"x 6" high impact polycarbonate hinged enclosure with integrated locking latch and mounting flange. This NEMA 4 cabinet is rated for indoor or outdoor installations. An external 9.5" full band omni directional antenna is included. Two year warranty on all system components.

Popular Applications:

- Utility Metering
- Substation Communications
- Industrial SCADA & Telemetry
- Traffic and Intersection Communications
- Multi-Tenant Property Submetering
- Fuel Tank Monitoring
- Security & Video Surveillance
- Waste Management
- Solar Energy Meter Reading



Picture shows base unit with optional cell signal amplifier

Model# ML-4G LTE CDS

Features:

- Can be customized and built for your specific applications
- 4G LTE with 3G fallback
- Ethernet Connection - 10/100Mbps RJ45 Connector
- Alternative I/O Interfaces using Optional Expansion Cards
- Includes Industrial Grade Full Band external antenna w/20ft low loss cable
- NEMA 4 cabinet for indoor or outdoor installations
- Optional 12VDC Battery Back up
- Optional M2M Cellular Signal Booster, 4G, 5-band, approved for all carriers.
- Optional Remote Rebooting component

Multi-Link 4G LTE Cellular DataCom System

"An affordable and highly customizable solution for new cell M2M installations and legacy equipment upgrades"



Built to spec, all equipment is securely housed in a small footprint NEMA 4 cabinet for indoor and outdoor installations.

ML-4G LTE CDS Technical Specifications

Enclosure:

10" x 8" x 6" High impact polycarbonate hinged enclosure with integrated locking latch and mounting flange.
NEMA 4X: UL Type 4X/6P
System Environmental Rating: Temp Range: -40° to 140°F / IP66 (May vary depending on component selection)
Aluminum mounting plate installed
3" 35 mm x 7.5 mm DIN rail installed; ¾" Conduit connector installed; ¾" Liquid tight cable connector installed

Cell Gateway:

WWAN Modem 4G LTE : Supported Frequency Bands ~ 700/800/850/900/1800/1900/2100/2600/AWS (B 1-5, 7, 8, 13, 17, 18, 19, 20)
Backwards compatible to 3G and certified on all major US cellular networks
Maximum Connectivity Speeds: 100Mbps down - 50Mbps up (Cat 3) Theoretical LTE data rates
Standard Connectivity: Ethernet (IEEE 802.3) 10/100Mbps RJ45 Connector (*Additional connectivity options are available)
GPS: High sensitivity A-GPS /A-GLONASS receiver (SUPL 1.0 & SUPL 2.0)
Power Control : Timed Wakeup
Power In: 9-33 VDC
SIM (Not Included): USIM/SIM connection; Class B and Class C
Certification: CE, FCC, IC, PTCRB

Electrical Source:

Two Options Available
1) DIN-Rail mounted service outlet – Dual outlet, 120 VAC, 15A Grounded (Input & Output)
2) DIN-Rail mounted Industrial AC to DC power supply – Input: 85~264 VAC Output: 12VDC 3.75A

Antenna:

Internal – 3" 4G Penta-band antenna (SMA)
External – 9.5" Full band omni directional antenna (N-Female) w/20 Ft. low loss coax cable (N-Male to SMA Male)

System Configuration Options

*Cellular Connectivity (Two Expansion Slots)

Available Expansion Cards:

- 1) 4-port Ethernet (with or w/o PoE)
- 2) Industrial Serial (Both RS-232 & RS-485)
- 3) Serial (RS-232)
- 4) Wi-Fi (802.11 a/b/g/n)

M2M Cell Signal Booster: ML-CSA4500 4G LTE Amplifier for all Carriers

- 4G LTE with 3G & 2G Fall-Back
- Nominal Gain +15dB
- Patented Passive Bypass Technology keeps cell devices connected in vital applications
- Patented Auto Gain & Oscillation Control
- FCC & IC Certified and Carrier Pre-Approved

IP4000 Remote Automatic Rebooter:

- 2 Controlled North American AC outlets
- Power control via Auto-Ping/ via Web Browser/ via Daily Scheduling
- 100~250VAC/50 or 60 Hz; 10 Amps
- Multiple supported protocols: TCP/IP, HTTP, UDP, SMTP, DNS, Dynamic DNS

Battery Backup:

Multiple customized options available dependent on application requirements, output voltage, and reserve capacity (Amp-hours).
Standard specs: Input: 90~264 VAC
Output (To Load): 13.8 VDC 4.5 A
Output (To Battery) 13.8 VDC 2.5 A

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