



The LAN-Cell™ Mobile Gateway

Enterprise-Grade Cellular Router

Proxicast's LAN-Cell Mobile Gateway offers fast, reliable, secure and cost-effective remote Internet access wherever CDMA or GSM cellular data service is available. The LAN-Cell is an enterprise-grade cellular router that allows multiple PC's, laptops, webcams, controllers, PLCs, and other Ethernet-based devices to simultaneously utilize a single cellular data account for primary or backup connectivity. Since 2003, the award winning LAN-Cell Mobile Gateway has successfully changed the economics of cellular data communications.

Advanced Routing & Security

The LAN-Cell has advanced routing and security features typically found only in routers costing thousands more. The LAN-Cell provides seamless Internet connectivity and unmatched security to devices that were never designed for connection to the Internet, such as sensors, data loggers, PLCs, ATMs, and traffic controls. All without requiring any additional software or configuration on your remote equipment. The LAN-Cell's NAT and advanced rule-based SPI firewall provide security and policy enforcement for all remote devices and users.

Key Features

- CDMA 2000 1xRTT or GSM/GPRS built-in cellular modem
- Supports dynamic or static IP address from cellular carriers
- 4 port 10/100 Ethernet switch w/ auto MDIX
- 10/100 WAN interface (for DSL, Cable, Ethernet)
- Auto fail-over between Cellular & WAN ports
- Advanced IP routing with NAT/SUA & Port Forwarding
- IPSec-based VPN client (DES, 3DES, AES)
- Stateful Inspection Firewall
- Supports digital X.509 PKI security certificates
- Content filtering & access control
- Web/SSL & Telnet/SSH Management Consoles
- Vehicle & solar power compatible - 12 VDC operation

Full VPN Client & Easy Management

The built-in VPN client & server eliminates the need to configure individual devices and extends your secure corporate network to devices that cannot run VPN client software. The LAN-Cell is compatible with all major IPSec VPN and PKI/Certificate products and can initiate or terminate 2 simultaneous VPN tunnels. The LAN-Cell also has easy-to-use web and telnet management interfaces - plus SNMP support for enterprise management.



Ships Complete - Ready To Run

Each LAN-Cell Mobile Gateway ships complete with "nothing else to buy" and is "ready to run" right out of the box. The LAN-Cell includes your choice of an integrated CDMA 1x or GSM/GPRS modem module - there are no PC cards to buy, program, or fall out. Proxicast can even activate the LAN-Cell on your choice of cellular carriers. The package includes the LAN-Cell Mobile Gateway, external antenna, power supply, cables and documentation.

Application & Technical Support

Proxicast understands commercial and industrial applications. We know machine-to-machine (M2M) data communications. We understand high-reliability and mission-critical applications. We know that our product is only part of your total solution, so we design, build, and support our products to help your application succeed.

Sample Applications

- Remote Monitoring, Telemetry, SCADA, AMR, M2M
- Remote Webcams & Security Applications
- Construction Sites & Trailers
- Cash Registers & Credit Card Processing
- Vending, ATM Machines & Kiosks
- Military & Defense Applications
- Electronic Billboards & Signs
- Vehicles (service fleets, buses, trains, boats, vans)
- Backup For Wired Internet and Alarm Connections



Hardware Specifications

Physical

- Dimensions: 10.75 in (W) x 7.5 in (D) x 1.625 in (H) (273 x 190 x 41.3 mm)
- Weight: 2.9 lbs (1.3 kg)
- Table-top or Wall-Mountable

Power

- 12V DC (1200ma max) (solar cell compatible)
- 2.1 mm jack (positive center pin)
- Power consumption: 6W (typical), 14W (max)

Environmental

- Operating Temperature: -22 to 140 F (-30 to 60 C)
- Operating Humidity: 0% to 92% (non-condensing)

I/O Connections

- 4 x 10/100 Mbps Ethernet LAN switch ports (auto-sense/auto-negotiate)
- 1 x 10/100 Mbps Ethernet WAN port (auto-negotiate)
- 1 x DB9 serial configuration port
- 1 x SMA female antenna connector (antenna supplied)

CDMA Specifications

- CDMA 2000 1xRTT
- Dual Band Cellular (800 MHz) & PCS (1900 MHz)
- Receive: 869.04 - 893.37 MHz / 1931.25 - 1988.75 MHz
- Transmit: 824.04 - 848.97 MHz / 1851.25 - 1908.75 MHz
- Substitute Radio - 1841.25 -1868.75 MHz / 1751.25 ~ 1778.75MHz (For some non-US markets)
- Maximum Output Power: ~ 300mW
- Sensitivity: less than -104 dBm
- Full TIA/EIA/IS-98A Compliance
- Antenna Connector - SMA Female

GSM/GPRS Specifications

- Quad Band GSM Cellular (GSM850, EGSM900, DCS1800 and PCS1900)
- Multi-slot GPRS Class 12 (4RX/4TX, max 5 slots)
- GPRS Release 97 and 99 (SMG 31)
- Coding Schemes CS1-CS4
- Packet Channel PBCCH/PCCCH
- Sensitivity: less than -108 dBm (typical GPRS CS1)
- Transmit power: Class 4 (2W) @ GSM 850/900; Class 1 (1W) @ GSM 1800/1900
- Antenna Connector - SMA Female

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Software Specifications

Virtual Private Networks & Security

- IPSec-Compliant VPN Client/Server Endpoint
- DES, 3DES, AES Encryption
- 2 Simultaneous VPN Tunnels + VPN Pass-Through Support
- Interoperable with Standard IPSec-Based VPN Products
- Digital Certificates (X.509, PKCS#7) Management

Firewall

- Stateful Packet Inspection Firewall
- Rule-Based Packet Filter & Denial of Service Protection

IP & Routing

- Static & Dynamic Cellular IP Addressing
- DHCP Client & Server
- Multi-NAT/SUA/Port Forwarding
- IP Routing: UDP, TCP, ICMP, ARP, RIP, IGMP, Static
- Dynamic DNS Support

Device Management

- Web, Telnet/SSH & Command Line Configuration Utilities
- Remote Management from LAN or WAN
- Extensive Event Logging with E-Mail & Syslog Support
- Configuration Backup/Restore & Firmware Upgradeable

Cellular/WAN Access Control

- Auto-Failover Routing Between Wired and Cellular Interfaces
- Traffic Redirect for High-Availability Applications

Package Contents

- LAN-Cell Mobile Gateway 1xMG-401S or GPRS-401
- 120 VAC / 12 VDC Power Supply, CAT5 & Serial Cables
- Magnetic Mount Omni-Directional Antenna w/ 6 ft. Coax Lead
- QuickStart Guide, User Manual & Support Docs on CD

Your Authorized Proxicast Reseller Is:

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