# OnCell G3110/G3150

# Industrial quad-band GSM/GPRS/EDGE IP gateways with VPN



- > Universal quad-band GSM/GPRS/EDGE-850/900/1800/1900-MHz
- > Connect to Ethernet and serial devices over an integrated VPN
- > Redundant DC power input
- > 2 digital inputs and 1 relay output
- > Centralize private IP management software with OnCell Central Manager
- > DIN-Rail mounting
- > GuaranLink for reliable, consistent connectivity



# **Overview**

The OnCell G3110 and G3150 industrial RS-232 and RS-232/422/485 GSM/GPRS/EDGE IP gateways are designed to transmit data transparently over GSM/GPRS/EDGE cellular networks. The OnCell G3110 and G3150 can transmit data from both serial devices and Ethernet devices to a WAN interface, and come with private IP management software and VPN support for handling the IP address issue in cellular network structures. The products also come with a

# **Specifications**

#### **Cellular Interface**

Standards: GSM/GPRS/EDGE Band Options: Quad-band 850/900 and 1800/1900 MHz EDGE Multi-slot Class: Class 12 GPRS Multi-slot Class: Class 12 GPRS Terminal Device Class: Class B GPRS Coding Schemes: CS1 to CS4 Tx Power: 1 watt GSM 1800/1900, 2 watts EGSM 850/900

#### LAN Interface

Number of Ports: 1 Ethernet: 10/100 Mbps, RJ45 connector, Auto MDI/MDIX Magnetic Isolation Protection: 1.5 KV built-in

#### **SIM Interface**

Number of SIMs: 1 SIM Control: 3 V

#### **Serial Interface**

Number of Ports: 1

Serial Standards: G3110: RS-232 (DB9 male connector) G3150: RS-232 (DB9 male connector), RS-422/485 (5-pin terminal block connector)

ESD Protection: 15 KV Power EFT/Surge Protection: 2 KV

# **Serial Communication Parameters**

Data Bits: 5, 6, 7, 8 Stop Bits: 1, 1.5, 2 (when parity = None) Parity: None, Even, Odd, Space, Mark Flow Control: RTS/CTS, XON/XOFF Baudrate: 50 bps to 921.6 Kbps inputs also allow you to connect basic I/O devices, and the OnCell's redundant power inputs assure non-stop operation. The OnCell G3100 series also offers wide temperature models which can withstand extreme temperature conditions.

built-in relay output that can be configured to indicate the priority of

events when notifying or warning engineers in the field. Two digital

#### **Serial Signals**

**RS-232:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND **RS-422:** Tx+, Tx-, Rx+, Rx-, GND **RS-485-4w:** Tx+, Tx-, Rx+, Rx-, GND **RS-485-2w:** Data+, Data-, GND

#### I/O Interface

Alarm Contact: 1 relay output with current carrying capacity of 1 A @ 24 VDC

Digital Inputs: 2 electrically isolated inputs • +13 to +30 V for state "1" (0n) • +3 to -30 V for state "0" (0ff)

#### **Software**

Network Protocols: ICMP, TCP/IP, UDP, DHCP, Telnet, DNS, SNMP, HTTP, SMTP, HTTPS, SNTP, ARP, SSL, IPSec Router/Firewall: NAT, port forwarding Authentication: Local user-name and password Security: Accessible IP list Operation Modes: Real COM, Secure Real COM, Reverse Real COM,

**Uperation Modes:** Real COM, Secure Real COM, Reverse Real COM, Secure Reverse Real COM, TCP Server, Secure TCP Server, TCP Client, Secure TCP Client, UDP, RFC2217, Ethernet Modem, Virtual Modem, SMS Tunnel

Configuration and Management Options: SNMP MIB-II, SNMP Private MIB, SNMPv1/v2c/v3, DDNS, IP Report, Web/Telnet/Serial-Console/SSH

Utilities: Provided for Windows 95/98/ME, Windows NT, Windows 2000/XP/2003/Vista/Server-2008, Windows XP/2003/Vista/ Server-2008 x64 Edition

Windows Real COM Drivers: Windows 95/98/ME, Windows NT, Windows 2000/XP/2003/Vista/Server 2008, Windows XP/2003/Vista/ Server 2008 x64 Edition Fixed TTY Drivers: SCO Unix, SCO OpenServer 5, SCO OpenServer 6, UnixWare 7, SVR4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD 5, FreeBSD 6

Linux Real TTY Drivers: Linux kernels 2.2.x, 2.4.x, 2.6.x

#### Management Software

**OnCell Central Manager:** Centralized management solution for accessing private IPs from the Internet

#### **Physical Characteristics**

Housing: Aluminum, providing IP30 protection Weight: 440±5 g

Dimensions: 28 x 126 x 93 mm (1.10 x 4.96 x 3.66 in) Environmental Limits

# Operating Temperature:

Standard Temperature: -30 to 55°C (-22 to 131°F) Wide Temperature: -30 to 70°C (-22 to 158°F) Storade Temperature: -40 to 75°C (-40 to 167°F)

#### **Dimensions & Pin Assignment**

Ambient Relative Humidity: 5 to 95% (30°C, non-condensing)

#### **Power Requirements**

Input Voltage: 12 to 48 VDC Power Consumption: 12 to 48 VDC, 900 mA (max.)

### **Standards and Certifications**

Safety: UL 60950-1

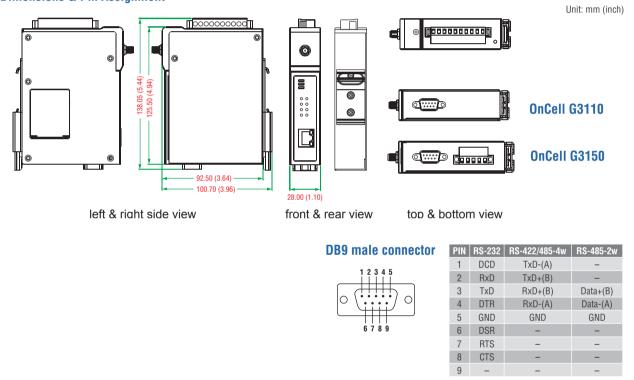
EMC: EN 55022 Class A, EN 55024, FCC Part 15 Subpart B Class A Radio: FCC Part 22H, FCC Part 24E, EN 301 489-1, EN 301 489-7, EN 301 511, PTCRB (OnCell G3150 only)

#### Reliability

MTBF (mean time between failures): 339,000 hrs Warranty

#### Warranty Period: 5 years

**Details:** See www.moxa.com/warranty



# **Crdering Information**

MOXA

#### **Available Models**

OnCell G3110: 1-port RS-232 to GSM/GPRS/EDGE IP gateway with VPN

OnCell G3150: 1-port RS-232/422/485 to GSM/GPRS/EDGE IP gateway with VPN

**OnCell G3110-T:** 1-port RS-232 to GSM/GPRS/EDGE IP gateway with VPN, wide temperature model. **OnCell G3150-T:** 1-port RS-232/422/485 to GSM/GPRS/EDGE IP gateway with VPN, wide temperature model.

Note: Please visit Moxa's website for a complete list of optional wireless accessories and antennas available for Moxa's wireless products.

#### Package Checklist

- OnCell IP gateway
- Rubber SMA antenna
- DIN-Rail kit
- Documentation and software CD
- Quick installation guide Warranty card