

OnCell G3111/G3151/G3211/G3251

1 and 2-port RS-232 or RS-232/422/485 GSM/GPRS IP gateways



- > Universal quad-band GSM/GPRS 850/900/1800/1900 MHz
- > Connect Ethernet and serial devices
- > Centralize private IP management software with OnCell Central Manager
- > Choice of configuration methods, including web console, serial console, and Telnet
- > Desktop or DIN-Rail installation



Overview

The OnCell G3111/G3151/G3211/G3251 are cellular IP gateways that can conveniently and transparently connect up to two devices to a cellular network, allowing you to connect to your existing Ethernet and serial devices with only basic configuration. To ensure zero data loss and on-demand cellular communication, OnCell devices are integrated with the GuaranLink function. The G3111/G3151/G3211/G3251 cellular

IP gateways are compact, and can be used on a desktop or mounted on a DIN-Rail. The products come with a 12 to 48 VDC power input and have 2 KV EFT/Surge protection to allow the use of different types of field power sources. The serial ports are also protected by 15 KV ESD line protection to keep your system safe from unexpected electrical discharges.

Specifications

Cellular Interface

Standards: GSM/GPRS
Band Options: Quad-band 850/900 and 1800/1900 MHz
GPRS Multi-slot Class: Class 10
GPRS Terminal Device Class: Class B
GPRS Coding Schemes: CS1 to CS4
Tx Power: 1 watt GSM 1800/1900, 2 watts EGSM 850/900
SIM Control: 3 V

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 or 2
Serial Standards:
 G3111: 1 RS-232 port
 G3151: 1 RS-232/422/485 port
 G3211: 2 RS-232 ports
 G3251: 2 RS-232/422/485 ports

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

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

Software

Network Protocols: ICMP, TCP/IP, UDP, DHCP, Telnet, DNS, SNMP, HTTP, HTTPS, SMTP, SNTP, ARP

Router/Firewall: NAT, port forwarding

Authentication: Local user-name and password

Security: Accessible IP list

Operation Modes: Real COM, TCP Server, TCP Client, UDP, RFC2217, Ethernet Modem, RFC2217, Ethernet Modem, SMS Tunnel, Reverse Real COM

Configuration and Management Options: SNMP MIB-II, v3, DDNS, IP Report, Web/Telnet/Serial Console, Serial Logging

Utilities: Provided for Windows 2000/XP/2003/Vista/Server 2008, Windows XP/2003/Vista/Server 2008 x64

Windows Real COM Drivers: Windows 2000/XP/2003/Vista/Server 2008, Windows XP/2003/Vista/Server 2008 x64

Management Software

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

Physical Characteristics

Housing: Aluminum, providing IP30 protection

Weight:

OnCell G3111/G3151: 165±5 g

OnCell G3211/G3251: 185±5 g

Dimensions: 111 x 77 x 26 mm (4.37 x 3.03 x 1.02 in)

Environmental Limits

Operating Temperature: -30 to 55°C (-22 to 131°F)

Storage Temperature: -40 to 75°C (-40 to 167°F)

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

Power Requirements

Number of Power Inputs: 1 power jack

Input Voltage: 12 to 48 VDC

Power Consumption: 12 to 48 VDC, 350 mA (Idle), 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: EN 301 489-1, EN 301 489-7, EN 301 511, PTCRB (OnCell G3151 Only)

Reliability

MTBF (mean time between failures):

OnCell G3111: 664,000 hrs

OnCell G3151: 661,000 hrs

OnCell G3211: 647,000 hrs

OnCell G3251: 642,000 hrs

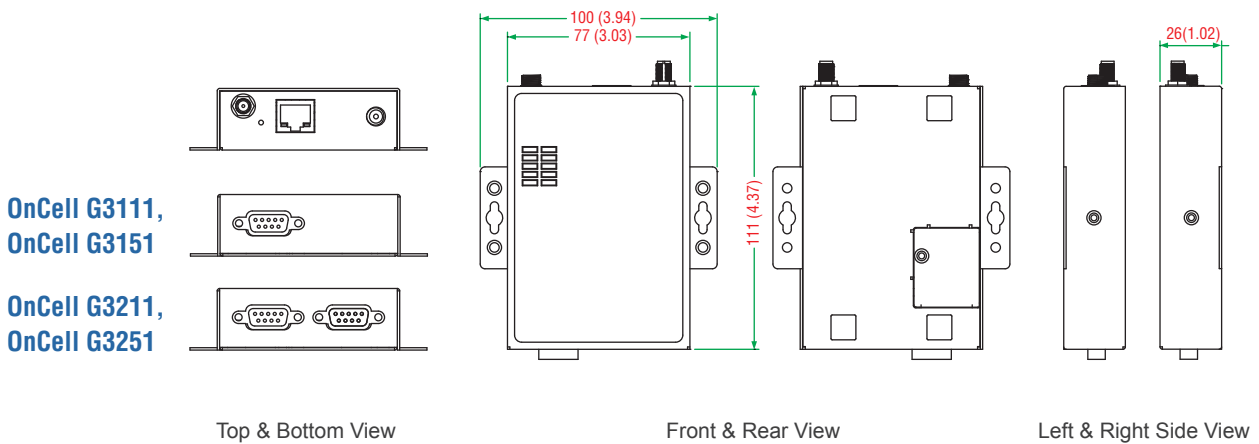
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Ordering Information

Available Models

OnCell G3111: 1-port RS-232 to GSM/GPRS IP gateway

OnCell G3151: 1-port RS-232/422/485 to GSM/GPRS IP gateway

OnCell G3211: 2-port RS-232 to GSM/GPRS IP gateway

OnCell G3251: 2-port RS-232/422/485 to GSM/GPRS IP gateway

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
- DC power supply (screw-on type)
- Din-Rail kit
- Documentation and software CD
- Quick installation guide
- Warranty card

Note: An activated SIM card (not included) must be provided by a third party Cellular Service Provider