

# OnCell G3111/G3151

## 1-port RS-232 or RS-232/422/485 cellular IP modems



- > Universal quad-band GSM/GPRS 850/900/1800/1900 MHz
- > Connect Ethernet and serial devices
- > Choice of configuration methods, including web console, serial console, and Telnet
- > Desktop or DIN-Rail installation



### Overview

The OnCell G3111 and OnCell G3151 are cellular IP modems that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing Ethernet and serial devices with only basic configuration. The G3111/G3151 cellular IP modems 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  
**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, 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 95/98/ME, Windows NT, Windows 2000/XP/2003/Vista/Server-2008, Windows XP/2003/Vista/Server-2008 x64  
**Windows Real COM Drivers:** Windows 95/98/ME, Windows NT, 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:** 165±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)

**Operating Humidity:** 5 to 95% RH

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

### Power Requirements

**Number of Power Inputs:** 1 power jack

**Input Voltage:** 12 to 48 VDC

**Data Link:** 900 mA (peak) @ 12 V

### Regulatory Approvals

**RF:**

EN301 489-1

EN301 489-7

EN301 511

**EMC:**

CE: EN55022 Class A / EN55024

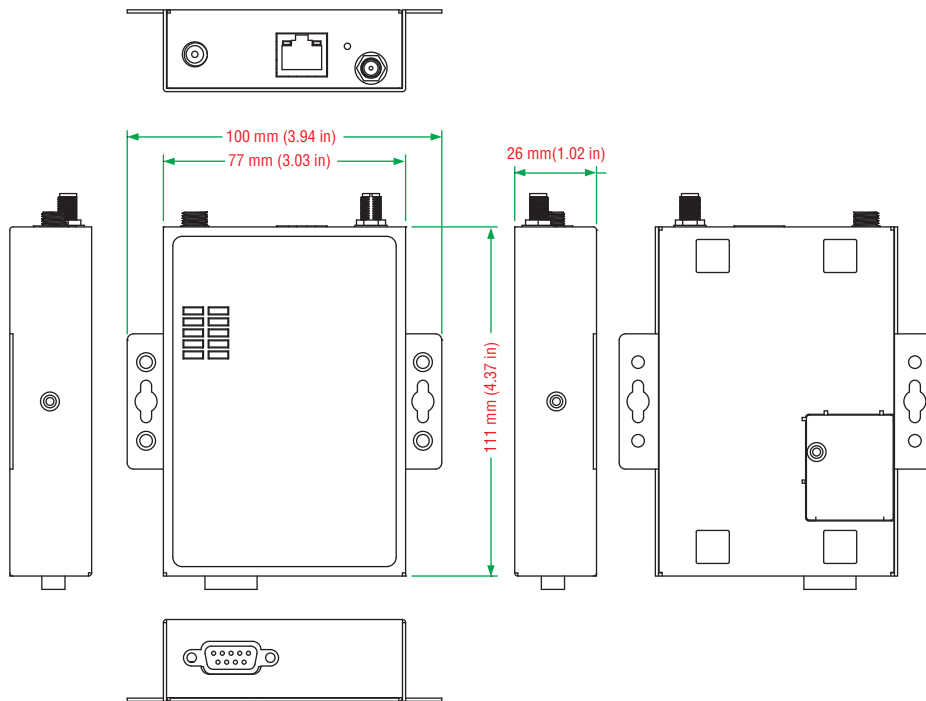
FCC: FCC part 15 subpart B, Class A

### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### Dimensions (unit = mm)



## : Ordering Information

### Available Models

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

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

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