OnCell G3101/G3201 Series

Compact quad-band GSM/GPRS IP gateways



Features and Benefits

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

Certifications



Introduction

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 serial devices to your existing Ethernet 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 placed on a desk 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

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Cellular Interface	
Cellular Standards	GSM, GPRS
Band Options	Quad-band GSM/GPRS 850 MHz / 900 MHz / 1800 MHz / 1900 MHz
GPRS Data Rates	85.6 kbps DL, 43 kbps UL
GPRS Multi-Slot Class	10
GPRS Terminal Device Class	Class B
GPRS Coding Schemes	CS1 to CS4
Cellular Antenna Connectors	1 SMA female
No. of SIMs	1
SIM Control Voltage	3 V
Ethernet Interface	
10/100BaseT(X) Ports (RJ45 connector)	1
Total Port Count	1



Ethernet Software Features

Ethemet Software Features				
Management	ARP, DDNS, DHCP/BOOTP, DNS Relay, HTTP, SMTP, SNMPv1/v2c/v3, TCP/IP, Telnet, UDP, Web Console, Wireless Search Utility, Serial Console, Telnet Console, Remote SMS Control, OnCell Central Manager, GuaranLink			
Routing	NAT, Port forwarding, WAN IP Filtering			
Security	HTTPS/SSL, SSH			
Time Management	SNTP			
Firewall				
Filter	ICMP			
Serial Interface				
Serial Standards	OnCell G3211/G3111: RS-232 OnCell G3151/G3251: RS-232/422/485			
Data Bits	5, 6, 7, 8			
Stop Bits	1, 1.5, 2			
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-485-2w	Data+, Data-, GND			
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND			
Operation Modes				
Standards	Ethernet Modem mode Real COM mode RFC2217 mode TCP Client mode TCP Server mode UDP mode SMS Tunnel Reverse Real COM			
Power Parameters				
Input Voltage	12 to 48 VDC			
Power Connector	Power jack			
Input Current	0.9 A @ 12 VDC, 0.23 A @ 48 VDC			
Physical Characteristics				
Housing	Aluminum			
IP Rating	IP30			
Dimensions	77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)			
Weight	OnCell G3151/G3111: 170 g (0.38 lb) OnCell G3211/G3251: 190 g (0.42 lb)			



Environmental Limits

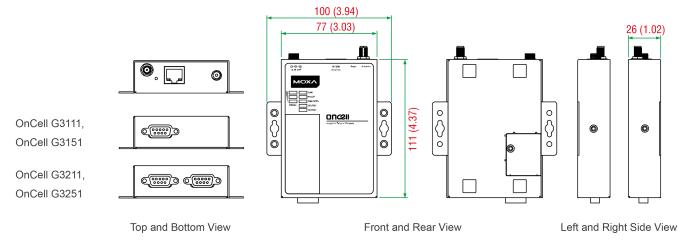
Environmental Limits				
Operating Temperature	-30 to 55°C (-22 to 131°F)			
Storage Temperature (package included)	-40 to 75°C (-40 to 167°F)			
Ambient Relative Humidity	5 to 95% (non-condensing)			
Standards and Certifications				
Safety	UL 60950-1			
EMC	EN 55032/24			
EMI	CISPR 32, FCC Part 15B Class A			
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF			
Radio Frequency	FCC Part 22H, FCC Part 24E, EN 301 489-1, EN 301 489-7, EN 301 511, PTCRB (OnCell G3151 only)			
MTBF				
Time	OnCell G3111: 664,000 hrs OnCell G3151: 661,000 hrs OnCell G3211: 647,000 hrs OnCell G3251: 642,000 hrs			
Standards	Telcordia SR332			
Warranty				
Warranty Period	5 years			
Details	See www.moxa.com/warranty			
Package Contents				
Device	1 x OnCell G3101/G3201 Series IP gateway ¹			
Installation Kit	1 x DIN-rail kit 1 x rubber stand			
Antenna	1 x GSM/GPRS			
Power Supply	DC power supply (screw-on type)			
Documentation	1 x quick installation guide 1 x warranty card			

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



Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Cellular Standard	GPRS Band	Operating Temp.	No. of Serial Ports	Serial Standards
OnCell G3111	GSM/GPRS	850/900/1800/1900 MHz	-30 to 55°C	1	RS-232
OnCell G3151	GSM/GPRS	850/900/1800/1900 MHz	-30 to 55°C	1	RS-232/422/485
OnCell G3211	GSM/GPRS	850/900/1800/1900 MHz	-30 to 55°C	2	RS-232
OnCell G3251	GSM/GPRS	850/900/1800/1900 MHz	-30 to 55°C	2	RS-232/422/485

Accessories (sold separately)

Wireless Antenna Cables

A-CRF-SMSF-R3-100

Cellular magnetic-base SMA connector with 1-meter RF cable

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