

Cellular Routers



	OnCell 5004-HSPA	OnCell 5104-HSPA	OnCell 5004	OnCell 5104
Cellular Interface				
Standards	GSM/GPRS/EDGE/UMTS/HSPA+		GSM/GPRS	
GSM/GPRS/EDGE band Options	850/900/1800/1900 MHz		850/900/1800/1900 MHz	
UMTS/HSDPA/HSPA+ band Options	800/850/AWS/1900/2100 MHz		-	-
HSPA+ Data Rate	14.4 Mbps UL, 5.76 Mbps DL		-	-
HSDPA Data Rate	3.6 Mbps UL, 386 Kbps DL		-	-
EDGE Multi-slot	Class 12	Class 12	-	-
EDGE Terminal Device	Class B	Class B	-	-
GPRS Multi-slot	Class 12	Class 12	Class 10	Class 10
GPRS Terminal Device	Class B	Class B	Class B	Class B
GPRS Coding Schemes	CS1 to CS4		CS1 to CS4	CS1 to CS4
Operator Network	✓	✓	-	-
WAN Interface				
Number of Ports	1	1	1	1
Ethernet	10/100M (RJ45)	10/100M (RJ45)	10/100M (RJ45)	10/100M (RJ45)
LAN Interface				
Number of Ports	4	4	4	4
Ethernet	10/100M (RJ45)	10/100M (RJ45)	10/100M (RJ45)	10/100M (RJ45)
SIM Interface				
Number of SIMs	2	2	2	2
SIM Control	3 V	3 V	3 V	3 V
I/O Interface				
Alarm Contacts	-	1	-	1
Digital Inputs	-	2	-	2
Software				
Network Protocols	UDP/TCP, SNMP, ICMP, DDNS, DHCP/BOOTP, PPPoE, PPP, DNS Relay, HTTPS, Telnet, IPSec			
Router/Firewall	NAT, port forwarding, routing			
Authentication	Local user-name and password			
Security	IP filtering			
Management Software				
OnCell Central	Centralized management solution for accessing private IPs from the internet			
Physical Characteristics				
Housing	Aluminum (IP30)	Aluminum (IP30)	Aluminum (IP30)	Aluminum (IP30)
Weight	505±5 g	645±5 g	505±5 g	645±5 g
Dimensions (mm)	158 x 103 x 34	160 x 50 x 103	158 x 103 x 34	160 x 50 x 103
Environmental Limits				
Operating Temperature	-30 to 55°C	Standard Models: -30 to 55°C Wide Temp. Models: -30 to 70°C	-30 to 55°C	-30 to 55°C
Operating Humidity	5 to 95%	5 to 95%	5 to 95%	5 to 95%
Storage Temperature	-40 to 75°C	-40 to 75°C	-40 to 75°C	-40 to 75°C
Power Requirements				
Input Voltage	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC
Power Consumption	400 mA (Idle), 900 mA (max)	450 mA (Idle), 950 mA (max)	400 mA (Idle), 900 mA (max)	450 mA (Idle), 950 mA (max)
Connector Type	2-pin terminal block and 1 power jack	10-pin terminal block	2-pin terminal block and 1 power jack	10-pin terminal block
Standards and Certifications				
Safety	UL60950-1			
EMC	EN 55022 Class A, EN 55024, FCC Part 15, Subpart B Class A			
Radio Frequency	FCC Part 22H, FCC Part 24E, EN 301 489-1, EN 301 489-7, EN 301 511, EN 301 489-24		FCC Part 22H, FCC Part 24E, EN 301 489-1, EN 301 489-7, EN 301 511	
Reliability				
Warranty	5 years (See www.moxa.com/warranty)			

Cellular IP Gateways



	OnCell G3110-HSPA	OnCell G3150-HSPA	OnCell G3110	OnCell G3150
Cellular Interface				
Standards	GSM/GPRS/EDGE/UMTS/HSPA+		GSM/GPRS/EDGE	
GSM/GPRS/EDGE band Options	850/900/1800/1900 MHz		850/900/1800/1900 MHz	
UMTS/HSDPA/HSPA+ band Options	800/850/AWS/1900/2100 MHz		-	-
HSPA+ Data Rate	14.4 Mbps UL, 5.76 Mbps DL		-	-
HSDPA Data Rate	3.6 Mbps UL, 386 Kbps DL		-	-
EDGE Multi-slot	Class 12	Class 12	Class 12	Class 12
EDGE Terminal Device	Class B	Class B	Class B	Class B
GPRS Multi-slot	Class 12	Class 12	Class 12	Class 12
GPRS Terminal Device	Class B	Class B	Class B	Class B
GPRS Coding Schemes	CS1 to CS4	CS1 to CS4	CS1 to CS4	CS1 to CS4
Operator Network	-	-	-	-
LAN Interface				
Number of Ports	1	1	1	1
Ethernet	10/100M (RJ45)	10/100M (RJ45)	10/100M (RJ45)	10/100M (RJ45)
SIM Interface				
Number of SIMs	1	1	1	1
SIM Control	3 V	3 V	3 V	3 V
Serial Interface				
Number of Ports	1	1	1	1
Serial Standards	RS-232	RS-232/422/485	RS-232	RS-232/422/485
Connector	DB9-M	DB9-M and TB	DB9-M	DB9-M and TB
Serial Parameters	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			
I/O Interface				
Alarm Contacts	1	1	1	1
Digital Inputs	2	2	2	2
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, TCP Server, Secure TCP Server, TCP Client, Secure TCP Client, UDP, RFC2217, Ethernet Modem, SMS Tunnel			
Utilities	Windows 2000/XP/2003/Vista/Server 2008, Windows XP/2003/Vista/Server 2008 x64 Edition			
Windows Real COM Drivers	Windows 2000/XP/2003/Vista/Server 2008, Windows XP/2003/Vista/Server 2008 x64 Edition			
Management Software				
OnCell Central	Centralized management solution for accessing private IPs from the Internet			
Physical Characteristics				
Housing	Aluminum (IP30)			
Weight	440±5 g			
Dimensions (mm)	28 x 126 x 93			
Environmental Limits				
Operating Temperature	Standard Models: -30 to 55°C Wide Temp. Models: -30 to 70°C	Standard Models: -30 to 55°C Wide Temp. Models: -30 to 70°C	Standard Models: -30 to 55°C Wide Temp. Models: -30 to 70°C	Standard Models: -30 to 55°C Wide Temp. Models: -30 to 70°C
Operating Humidity	5 to 95%			
Storage Temperature	-40 to 75°C			
Power Requirements				
Input Voltage	12 to 48 VDC			
Power Consumption	400 mA (Idle), 900 mA (max)			
Connector Type	10-pin terminal block			
Standards and Certifications				
Safety	UL60950-1			
EMC	EN 55022 Class A, EN 55024, FCC Part 15 Subpart B Class A			
Radio Frequency	FCC Part 22H, FCC Part 24E, EN 301 489-1, EN 301 489-7, EN 301 489-24, EN 301 511			FCC Part 22H, FCC Part 24E, EN 301 489-1, EN 301 489-7, EN 301 511, PTCRB
Reliability				
Warranty	5 years (see www.moxa.com/warranty)			

Cellular IP Gateways and Cellular Modems



	Cellular IP Gateways				Cellular Modems	
	OnCell G3111	OnCell G3151	OnCell G3211	OnCell G3251	OnCell G2111 OnCell G2111-T	OnCell G21511
Cellular Interface						
Standards	GSM/GPRS		GSM/GPRS	GSM/GPRS	GSM/GPRS	GSM/GPRS
GSM/GPRS Options	850/900/1800/1900 MHz					
GPRS Multi-slot Class	Class 10	Class 10	Class 10	Class 10	Class 10	Class 10
GPRS Terminal Device Class	Class B	Class B	Class B	Class B	Class B	Class B
GPRS Coding Schemes	CS1 to CS4	CS1 to CS4	CS1 to CS4	CS1 to CS4	CS1 to CS4	CS1 to CS4
LAN Interface						
Number of Ports	1	1	1	1	–	–
Ethernet	10/100 Mbps (RJ45)	10/100 Mbps (RJ45)	10/100 Mbps (RJ45)	10/100 Mbps (RJ45)	–	–
SIM Interface						
Number of SIMs	1	1	1	1	1	1
SIM Control	3 V	3 V	3 V	3 V	3 V	3 V
Serial Interface						
Number of Ports	1	1	2	2	1	1
Serial Standards	RS-232	RS-232/422/485	RS-232	RS-232/422/485	RS-232	RS-232/422/485
Connector	DB9-M	DB9-M	DB9-M	DB9-M	DB9-F	DB9-F and 5-pin TB
2.5 KV Optical Isolation	–	–	–	–	–	✓
Serial Communication Parameters	Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Even, Odd, Space, Mark				Data Bits: 7, 8; Stop Bits: 1, 2; Parity: None, Even, Odd, Space, Mark	
Flow Control	RTS/CTS, XON/XOFF				RTS/CTS	
Baudrate	50 bps to 921.6 Kbps				300 bps to 115.2 Kbps	
Software						
Network Protocols	ICMP, TCP/IP, UDP, DHCP, Telnet, DNS, SNMP, HTTP, HTTPS, SMTP, SNMP, 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 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	Centralized management solution for accessing private IPs from the Internet				–	–
Physical Characteristics						
Housing	Aluminum (IP30)				ABS + PC (IP30)	
Weight	165±5 g		185±5 g		150 ± 5 g	
Dimensions	111 x 77 x 26 mm				27 x 123 x 79 mm	
Environmental Limits						
Operating Temperature	-30 to 55°C				0 to 55°C or -30 to 75°C	
Operating Humidity	5 to 95%				–	
Storage Temperature	-40 to 75°C				–	
Power Requirements						
Input Voltage	12 to 48 VDC				–	
Power Consumption	350 mA (Idle), 900 mA (max)				100 mA (idle), 625 mA (max.)	
Connector Type	Power jack				–	
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	EN 301 489-1, EN 301 489-7, EN 301 512, PTCRB	EN 301 489-1, EN 301 489-7, EN 301 511		FCC Part 22H, FCC Part 24E, EN 301 489-1, EN 301 489-7, EN 301 511	
Reliability						
Warranty	5 years (see www.moxa.com/warranty)				–	