

OnCell 5004/5104

Industrial quad-band GSM/GPRS cellular routers



OnCell 5004

AVAILABLE IN AUGUST



OnCell 5104

- > Universal quad-band GSM/GPRS 850/900/1800/1900 MHz
- > Industrial primary and backup wireless WAN connectivity
- > Connect up to 4 10/100BaseT(X) devices
- > Centralize management of private IPs
- > Redundant DC power inputs
- > 2 digital inputs and 1 relay output (OnCell 5104 only)



: Overview

The OnCell 5004/5104 are high-performance industrial grade cellular routers that allow up to 4 Ethernet-based devices to simultaneously use a single cellular data account for primary or backup network connectivity to remote sites and devices. Both products provide the functionality of a cellular router, firewall, and switch in one device, and are the industry's first standalone platform of this type. The difference between the OnCell 5004 and OnCell 5104 is that the OnCell 5104 comes with a built-in relay output that can be configured to indicate

the priority of events when notifying or warning engineers in the field, and the two digital inputs allow you to connect basic I/O devices, such as sensors, to the cellular network. The OnCell 5004 can be placed on a desktop or wall-mounted, whereas the OnCell 5104 has an IA design and can be attached to a DIN-rail. Both products use 12 to 48 VDC power inputs with a screw-on design for greater reliability, and the Ethernet ports come with 1.5 KV magnetic isolation 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

WAN Interface

Number of Ports: 1

Ethernet: 10/100 Mbps, RJ45 connector, Auto MDI/MDIX

Magnetic Isolation Protection: 1.5 KV built-in

LAN Interface

Number of Ports: 4

Ethernet: 10/100 Mbps, RJ45 connector, auto MDI/MDIX

Magnetic Isolation Protection: 1.5 KV built-in

SIM Interface

Number of SIMs: 2

SIM Control: 3 V

I/O Interface (OnCell 5104 only)

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

Digital Inputs: 2 electrically isolated inputs

- +13 to +30 V for state "1" (On)
- +3 to -30 V for state "0" (Off)

Software

Network Protocols: UDP/TCP, SNTP, ICMP, DDNS, DHCP/BOOTP, PPPoE, PPP, DNS Relay, HTTPS, Telnet

Router/Firewall: NAT, port forwarding, routing

Authentication: Local user-name and password

Security: IP filtering

Management Software

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

Physical Characteristics

Housing: Aluminum, providing IP30 protection

Weight:

OnCell 5004: 505±5 g

OnCell 5104: 645±5 g

Dimensions:

OnCell 5004: 158 x 103 x 34 mm (6.22 x 4.06 x 1.34 in)

OnCell 5104: 160 x 103 x 50 mm (6.30 x 4.06 x 1.97 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 terminal block, 1 power jack

Input Voltage: 12 to 48 VDC

Data Link: 335 to 900 mA (peak) @ 12 V

Regulatory Approvals

Safety:

UL: UL60950

RF:

FCC Part22H

FCC PART24E

EN301 489-1

EN301 489-7

EN301 511

EMC:

CE: EN55022 Class A / EN55024

FCC: FCC part 15 subpart B, Class A

EN61000-4-2 (ESD) Level 4

EN61000-4-3 (RS) Level 3

EN61000-4-4 (EFT) Level 4

EN61000-4-5 (Surge) Level 3

EN61000-4-8 Level 3

EN61000-4-12 Level 3

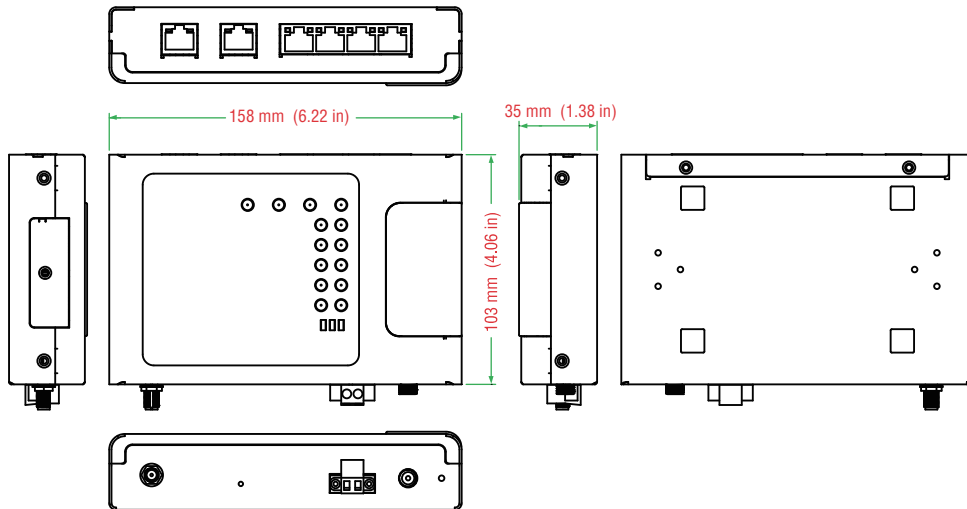
Warranty

Warranty Period: 5 years

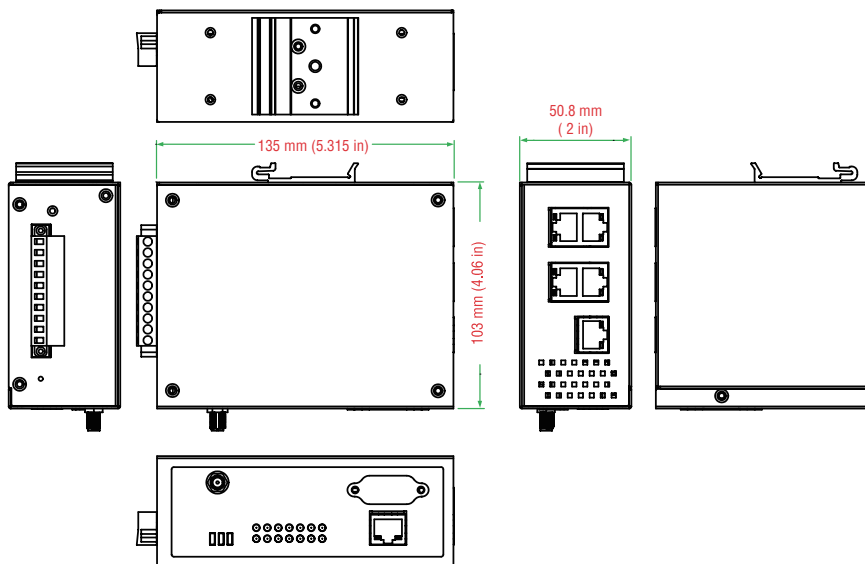
Details: See www.moxa.com/warranty

Dimensions

OnCell 5004



OnCell 5104



: Ordering Information

Available Models

OnCell 5004: 4-port 10/100M Ethernet to GSM/GPRS cellular router

OnCell 5104: 4-port 10/100M Ethernet to GSM/GPRS cellular router, IA design (available in June)

Optional Accessories (can be purchased separately)

DC Power Supply (screw-on): See Appendix A

DC Power Supply (standard): See Appendix A

Power Jack to Terminal Block Cable: See Appendix A

ANT-CQB-AHSM-00-3m: Omni 0dBi/10cm, magnetic SMA quad-band antenna (impedance = 50 ohms), 3 m

ANT-CQB-AHSM-03-3m: Omni 3dBi/25cm, magnetic SMA quad-band antenna (impedance = 50 ohms), 3 m

ANT-CQB-AHSM-05-3m: Omni 5dBi/37cm, magnetic SMA quad-band antenna (impedance = 50 ohms), 3 m

Package Checklist

- OnCell Cellular Router
- Rubber SMA antenna
- Rubber stand (OnCell 5004 only)
- Wall-mount Kit (OnCell 5004 only)
- Din-Rail Kit (OnCell 5104 only)
- Terminal block (screw type)
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card