

# OnCell 5004/5104-HSDPA

## Industrial tri-band UMTS/HSDPA high speed cellular routers



OnCell 5004-HSDPA



OnCell 5104-HSDPA

- > Universal tri-band UMTS/HSDPA 850/1900/2100 MHz
- > Quad-band GSM/GPRS/EDGE 850/900/1800/1900 MHz
- > Industrial primary and backup wireless WAN connectivity
- > Connect up to 4 10/100BaseT(X) devices
- > Centralize private IP management software with OnCell Central Manager
- > Redundant DC power inputs
- > 2 digital inputs and 1 relay output (OnCell 5104-HSDPA only)



### Overview

The OnCell 5004/5104-HSDPA 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 platforms of this type. The difference between the OnCell 5004-HSDPA and OnCell 5104-HSDPA is that the OnCell 5104-HSDPA 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-HSDPA can be placed on a desktop or wall-mounted, whereas the OnCell 5104-HSDPA 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/EDGE/UMTS/HSDPA

#### Band Options:

Tri-band UMTS/HSDPA 850/1900/2100 MHz

Quad-band GSM/GPRS/EDGE 850/900/1800/1900 MHz

**EDGE Multi-slot Class:** Class 10

**EDGE Terminal Device Class:** Class B

**GPRS Multi-slot Class:** Class 10

**GPRS Terminal Device Class:** Class B

**GPRS Coding Schemes:** CS1 to CS4

#### Tx Power:

GSM900: 2 W

UMTS/HSDPA: 0.25 W

EDGE900: 0.5 W

EDGE1800: 0.4 W

GSM1800: 1 W

#### 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-HSDPA only)

**Alarm Contact:** 1 relay output with current carrying capacity of 1 A @ 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, SNMP, 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-HSDPA: 505±5 g

OnCell 5104-HSDPA: 645±5 g

#### Dimensions:

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

OnCell 5104-HSDPA: 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 1185 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

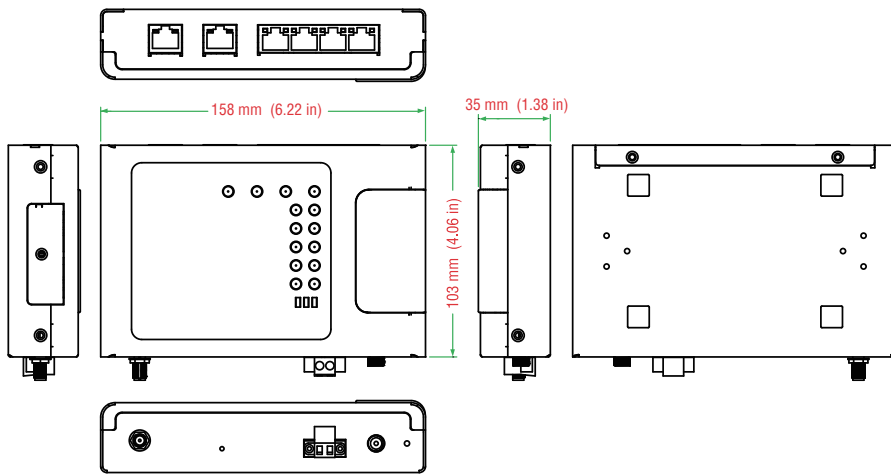
### Warranty

**Warranty Period:** 5 years

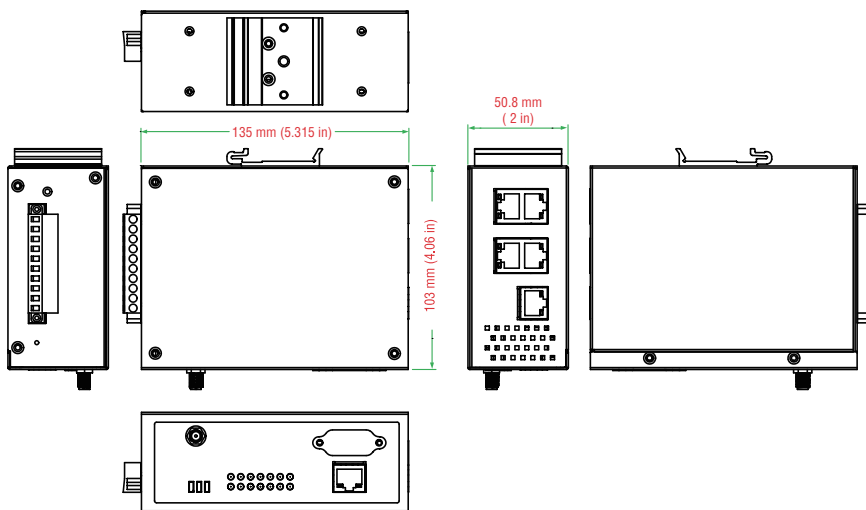
**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### Dimensions

#### OnCell 5004-HSDPA



#### OnCell 5104-HSDPA



## Ordering Information

### Available Models

**OnCell 5004-HSDPA:** 4-port 10/100M Ethernet to UMTS/HSDPA cellular router

**OnCell 5104-HSDPA:** 4-port 10/100M Ethernet to UMTS/HSDPA cellular router, IA design

### Optional Accessories (can be purchased separately)

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