

R100

4G Band 28 Cellular Router

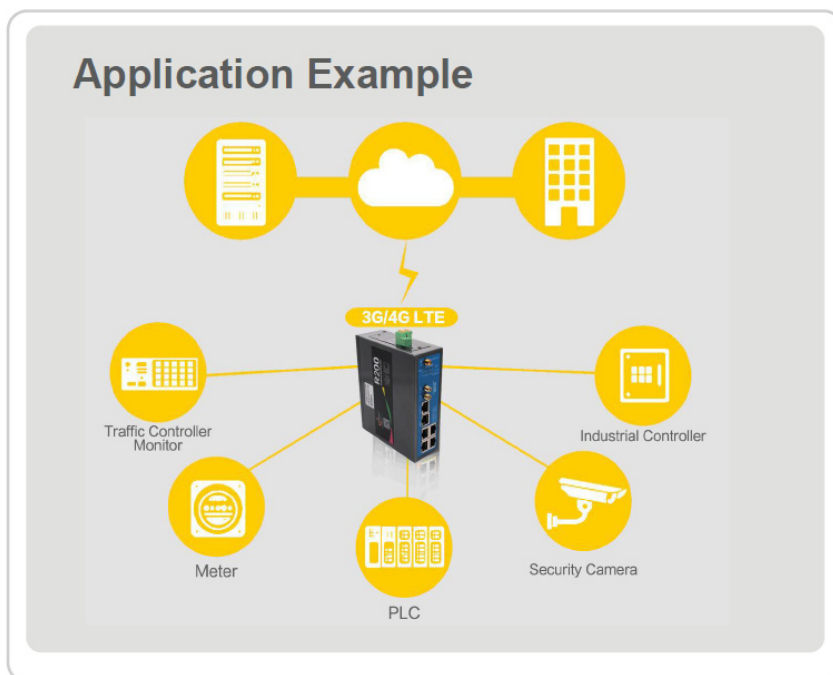
4xLAN, 1xWAN, Wi-Fi: 802.11 b/g/n,
1xRS232/RS485, 2xDI, 1xDO, 1xRelay



R100 series is an intelligent cellular router designed for industrial applications requiring faultless connectivity. It provides a secure, reliable, real-time, remote connectivity for SCADA, distribution management systems, metering etc. Software-defined, multi-carrier networking, dual SIM models, 802.11n and global 3G/4G LTE options make it easy to get connected. With DIN-rail mounting, wide operating temperature range, and IP30 metal housing, the R100 is a convenient yet reliable solution for any industrial wireless applications.

FEATURES

- Advanced Failover: Maximize uptime by seamlessly switching between the multiple Internet interfaces (cellular, WAN, Wi-Fi, dual-SIM).
- Multiple Tunnelling Schemes: Secure your data using a variety of VPN tunnelling schemes, including IPSec, L2TP, PPTP, OpenVPN and GRE.
- Flexible Wi-Fi: 802.11 b/g/n, configurable Wi-Fi as WAN or access point, Wi-Fi Security (WEP / WPA / WPA2 Mixed Mode) and multiple SSID.
- Ethernet, serial and I/O for connecting diverse field assets.
- Remote Management provides mass configuration, device management, OTA update, and troubleshooting tools.



SPECIFICATIONS

Cellular WAN	<ul style="list-style-type: none">Supported Frequency Bands-- LTE: B1, B2, B3, B4, B5, B7, B8, B20, B28-- WCDMA: 2100/1900/900/850Mhz-- EV-DO/CDMA: 800(BC0)-- GSM/GPRS/EDGE: 850/900/1800/1900• Automatic SIM based network operator switching	Wi-Fi	<ul style="list-style-type: none">• IEEE802.11 b/g/n, AP and client mode.• Adjustable output power (Max: 26dBm)• Access point for up to 30 clients• Simultaneous access point/client mode• WEP, WPA-PSK, WPA2-PSK etc. Security
Interfaces	<ul style="list-style-type: none">• 10/100 Base-T RJ45 Ethernet port• RS-232 or RS-485 Serial Console Port• 3 SMA antenna connectors (Wi-Fi and 2xCellular)• Active GPS/ZigBee antenna support (option)• (6) pin 3.5mm terminal block	Network and Routing	<ul style="list-style-type: none">• Network Address Translation (NAT)• Port Forwarding• Host Port Routing• VRRP• Reliable Static Route• Dynamic DNS
Input / Output	<ul style="list-style-type: none">• (6) pin 3.5mm terminal block.• (2) DI, (1) DO, (1) Relay.• Input ON Voltage: 5 to 30 VDC.• Input OFF Voltage: 0 to 3 VDC.• Output < 50mA @ 30VDC.	VPN	<ul style="list-style-type: none">• IPSec, GRE, and OPENVPN Client• Up to 10 concurrent tunnels• Split Tunnel• Dead Peer Detection (DPD)• Multiple Subnets• VPN Failover
LAN	<ul style="list-style-type: none">• DNS, DNS Proxy• DHCP Server• IP Passthrough (option)• VLAN• Host Interface Watchdog• PPPoE	Security	<ul style="list-style-type: none">• Remote Authentication• DMZ• Inbound and Outbound Port filtering• Inbound and Outbound Trusted IP• MAC Address Filtering.
Serial	<ul style="list-style-type: none">• TCP/UDP PAD Mode• Modbus (ASCII, DTU, Variable)• PPP• Reverse Telnet	GPS (Optional)	<p>Antenna Interface: SMA Female, 50 ohms</p> <ul style="list-style-type: none">• Tracking Sensitivity: better than -144 dBm• Horizontal position accuracy: 2.5 m• Time-To-First-Fix: 29 s• Protocol: NMEA-0183 V2.3
Reports	<p>Custom event triggers and reports.</p> <ul style="list-style-type: none">• Configurable interface, no programming.• Event Types: Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature.• Report Types: TCP, UDP, SMS, SNMP Trap, HTTP, JSON.• Event Actions: Drive Relay Output.	Environment	<ul style="list-style-type: none">• Operating Temperature: -35°C to +75°C / -31°F to +167°F• Storage Temperature: -40°C to 85°C / -40°F to 185°F• Humidity: 90% RH @ 60°C
Management Services	<ul style="list-style-type: none">• Secure cloud-based device management application• Remote provisioning• Gateway config and template management• Configurable monitoring and alerting• Software and radio module firmware updates• Auto configuration	Management Interfaces	<ul style="list-style-type: none">• Web-Based User Interface• Device Configuration Templates• Software and radio module fw updates• AT Command Line Interface (Telnet/SSH/Serial)• SMS Commands (Option)• SNMP
Dimensions	<ul style="list-style-type: none">• Housing & Weight: Metal, 520g• Dimension: (L x W x H): 133 x 115.7 x 45 mm• Installation: 34.6 mm Din-Rail or wall mounting or desktop		