

Industrial Routing

6944-Dual SIM 4G with Wi-Fi



Industrial Dual SIM LTE / 4G Router

- 4 x 10/100Mbps Ethernet Ports
- 2 x 2MIMO 300Mbps Wi-Fi
- Wireless Mesh Networking
- IEEE 802.11b/g/n, Access Point (AP), Client
- RS232 and RS485 Serial Ports
- MODBUS Support
- 2 Digital Input, 2 Digital Output ports
- Static and Dynamic Routing
- 5 x IP Sec, Open VPN & GRE Tunnels
- Operates from -40C ~ +75C

The Case Communications 6944 is an Industrial Cellular router with dual LTE/4G/3G/2G SIMS allowing it to operate reliably in harsh conditions.

The 6944 is equipped with 4 x 10/100Mbps Ethernet ports as well as Wi-Fi operating up to 300Mbps. An RS232 and RS 485 port allow connectivity for serial devices and 2 digital input and 2 digital output ports allow remote control of devices such as door catches or relays.

The 6944 is designed to support SCADA systems for industrial control.

SPECIFICATIONS

CELLULAR

| | |
|-------------------------------|--|
| | 4G(LTE) |
| | AU&NZ: B1/B2/B3/B4/B5/B7/B28, B40 |
| | EMEA: B1/B3/B5/B7/B8/B20, B38/B40/B41 |
| | America: B2/B4/B12/B13 |
| | Japan: B1/B3/B8/B18/B19/B26, B41 |
| Frequency Bands | China: B1/B3/B8, B34/B38/B39/B40/B41 |
| | WCDMA: B1/B2/B4/B5/B8/B19 |
| | TD-SCDMA: B34/B39 |
| | GSM/EDGE: B2/B3/B5/B8 |
| SIM | 2 x SIM slots, 1.8V / 3V |
| SIM failover | Auto-switch cases: data limited, SMS limited, no network, network denied, data connection fail |
| Auto APN List | Operator APN list |
| Mobile Quota Control | Set up customized data limits for both SIM cards |
| Number of Antennas Connectors | 2 (MAIN + AUX) SMA female |

ETHERNET

| | |
|-----------------------------|---|
| Number of Ports | 4 x 10/100Tx ports |
| Port Types | Auto 10/100 Mbps, auto MDI/MDIX |
| Magnet Isolation Protection | 1.5 KV |
| Wi-Fi | |
| Wi-Fi Mode | IEEE 802.11b/g/n, Access Point (AP), Client |
| Wireless Data Rate | 2*2 MIMO, 300 Mbps |
| Wireless Security | WPA, WPA2, WEP, CCMP, TKIP |
| Frequency Bands | 2.412 - 2.484 GHz (2.4 GHz ISM band) |
| Antennas | 2 x RP-SMA for Wi-Fi antenna connectors |

SERIAL

| | |
|-----------------|---------------------------------|
| Number of ports | 1 x RS-232 (3 PIN) + 1 x RS-485 |
| Connector | Terminal block |
| ESD Protection | ± 15 KV |
| Baud rate | 300bps to 115200bps |

DIGITAL INPUT & OUTPUT

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|------------------|-----------------|
| Type | 2 x DI + 2 x DO |
| Connector | Terminal block |
| Isolation | 3KVDC or 2KVrms |
| Absolute maximum | 36VDC |
| Absolute maximum | 100 mA |

VIRTUAL PRIVATE NETWORKS

| | |
|----------|---|
| Open VPN | Open VPN Client, supports up to 5 x Open VPN tunnels |
| IP Sec | IKEv1, IKEv2, supports up to 5 IP Sec VPN Tunnels |
| GRE | Layer 2 & Layer 3, supports up to 5 x GRE VPN Tunnels |
| DMVPN | Dynamic Multipoint Virtual Private Networking DMVPN |

MONITORING & MANAGEMENT

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|------------------------|------------------------------|
| Web GUI | HTTP/HTTPS, firmware upgrade |
| Command Line Interface | SShv2 & Telnet |
| SNMP (Pending) | SNMP v1, v2, v3, SNMP traps |

NETWORKING

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|--------------------|---|
| Routing | Static, Dynamic, (Ripv1/v2) OSPF, BGP |
| Network Protocols | TCP, UDP, IPv4, ICMP, NTP, HTTPS, ARP, VRRP, PPP, PPPoE, DHCP |
| Connection Manager | Ping Detection, Timer Reboot, ICMP for kink detection |
| DHCP | Static 7 Dynamic IP allocation |
| DDNS | Automatic and manual Configuration |
| Network Back-Up | Cellular, Wired, Wi-Fi WAN options |
| Firewall | Flexible access control of TCP, UDP, ICMP packets, MAC Address filter |
| SMS | SMS Configuration, SMS Gateway, SMS Notification |

HARDWARE SPECIFICATIONS

POWER

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|-------------------|--|
| Connector | 3 pin, 3.5mm female socket with lock |
| Input voltage | 9 ~ 48vdc. |
| Power Consumption | Data Link:400mA (Peak) at 12vdc Idle: 100mA@12vdc |

Watchdog timer

LEDS

Reset Button

Built in watchdog timer
System, Network, USR, RSSI x 3
Reset / restore to factory default

APPROVALS

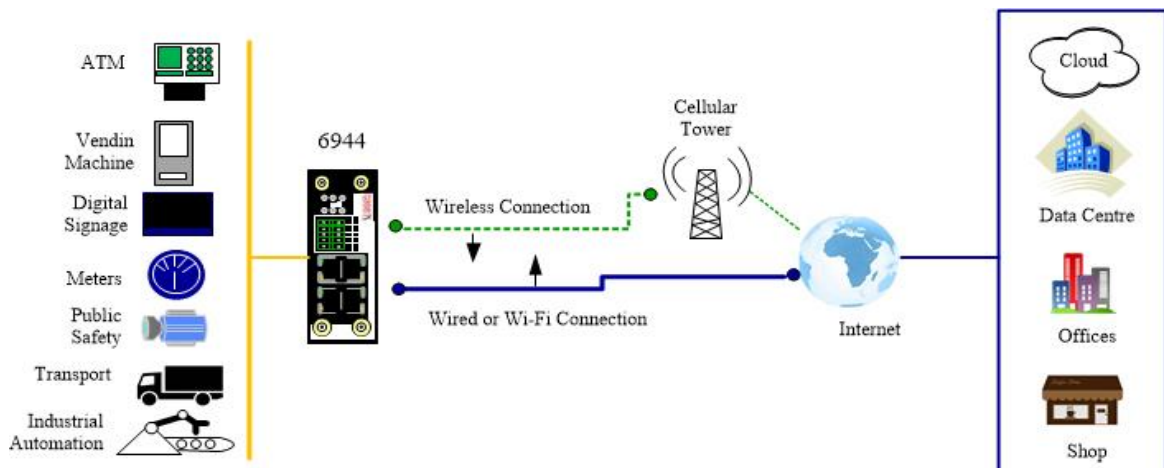
| | |
|-----------|--|
| EMI | EN 55032:2012 Class B |
| EMS | IEC 61000-4-2 ESD: Level 4 IEC 61000-4-3 RS: Level 3 IEC 61000-4-4 EFT: Level 3 IEC 61000-4-5 Surge: Level 3 IEC 61000-4-6 CS: Level 3 |
| Vibration | EN 50155 |

HOUSING AND PHYSICAL

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|--------------------|----------------------|
| Ingress Protection | IP 30 |
| Housing & weight | Metal: 300g |
| Dimensions | 106mm x 106mm x 40mm |
| Installation | DIN-Rail Mounting |

ENVIRONMENTAL

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|-----------------------|--------------------------|
| Operating Temperature | -40°C to +75°C |
| Operating Humidity | 5% to 95% non-condensing |



Ordering Information

| Part Number | Description |
|------------------|--|
| 6944 | Dual SIM 4G LTE, 4 Eth, 1 x RS232 (3 Pin), 1 x RS485, 2 DI, 2 x DO, 9-48vdc, -40C~+75C |
| 48vdc-230vac-70w | Optional 115~ 240vac to 48vdc 70 Watts Power Supply |