FACT SHEET

K330/K330-W 4G LTE Industrial Router

K330   **K330-W**

K330 and K330-W, compact, lightweight and cost-effective **4G LTE Industrial Routers**, are built in 2-port fast Ethernet connection as well as support 2G/3G/4G mobile networks for wired and wireless communication in harsh environments. Equipped with RS232 serial port and digital input/output interfaces, the **K330** and **K330-W** are simple to configure and collect real-time data transmission quickly for Industrial IoT and machine-to-machine applications. The **K330-W** is also compliant with IEEE 802.11b/g/n Wi-Fi connectivity.

Featuring VPN Tunnels, Firewall, TR069, and SNMP Trap, **K330 and K330-W 4G LTE Industrial Routers** enhance highly secure authentication, encryption and management to protect your data efficiently between public and private networking. Supporting -30~+70°C wide temperature operation and flexible input voltage range of 8-48VDC for diverse environments and various applications.

K330 and K330-W 4G LTE Industrial Routers are suitable and reliable choices for fast deployment and easy configuration to simplify your complicated solutions and fit your services for industrial networking and smart city.

Features

- Highly reliable and secure for mission-critical cellular communications
- Compact and lightweight design with 2-port Ethernet interfaces
- Support multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat 4
- Provide IEEE 802.11b/g/n Wi-Fi standards (K330-W Model)
- Built-in micro SIM connector, RS232 serial port, and DI/DO interfaces
- Integrated detachable antenna against radio interference
- LED indicators for connection and data transmission status
- Industrial rated from -30 to +70°C for use in harsh environments
- IPv6/IPv4 dual stack and all applications are IPv6 ready
- Support serial communication protocols for rich connectivity
- Enhance security and encryption for authentication and transmission

Specifications

Cellular Interface

- Standards: (Please see ordering information for optional band)
  - 4G: FDD LTE, TDD LTE
  - 3G: WCDMA
  - 2G: GSM/EDGE
- LTE Data Rate: Cat 4, 150Mbps (DL), 50Mbps (UL)

Wi-Fi Interface (K330-W Model)

- Compliant with IEEE 802.11 b/g/n Wi-Fi standards
- 2.4 GHz radio band for wireless
- 2T2R 300 Mbps wireless operation rate
- Wireless security with WPA2-PSK(AES)
- Multiple SSIDs
- Wireless MAC Filtering
- Wireless client isolation

Hardware Interface

- High Performance 550 MHz SoC with 128MByte Flash
- 1 x Micro SIM Connector (push-push type)
- 1 x LAN 10/100 Mbps Ethernet port
- 1 x WAN 10/100 Mbps Ethernet port
- WPS / RESET Button
- 1 x RS232 (TXD/RXD/GND)
- 1 x DI (Non-Isolated), 1 x DO (Non-Isolated)
- 2 x SMA connectors for detachable LTE Antenna
- 2 x RP-SMA connectors for detachable Wi-Fi Antenna (K330-W Model)
- 1 x SMA connector for detachable GPS antenna

Physical Characteristics

- Enclosure：Metal Case
- Dimensions (W x H x D)：91mm x 28mm x 74mm
- Weight：250 g (0.5512 lb)
- Installation：DIN Rail (Default) / Wall Mount (Optional)

LED Display

- 1 x Power LED
- 1 x Ethernet LED for each port (LAN/WAN)
- 1 x RSSI LTE LED
- 1 x Function LED (User define by Web)

Power Supply

- Power Consumption   7 Watts(Max)
- Power Input   8 ~ 48VDC

Software

- **Network Protocols:**

  IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, VRRP, OSPF, Message Queue Telemetry Transport (MQTT Broker), BGP, Flow (Modbus master ↔ MQTT client)

- **Routing/Firewall:**

  NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2, IPS, Policy Route

- **VPN:**

  OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE, PPTP, L2TP

- **Wireless Connectivity:**

  WAN WiFi Client

- **Others:**

  DDNS, QoS, UPnP, SMS Action, GPS Track Drawing, GPS TCP Push

- **Alarm:**

  DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail, TR069

Management Software

- Web GUI for remote and local management, CLI
- Syslog monitor
- SNMP, TR069
- FOTA (Firmware over the Air)
- Remote management via SSH v2, HTTPS
- Local management via Telnet, SSH v2, HTTP/HTTPS

Environment

- Operating Temperature   -30 ~ +70°C
- Storage Temperature   -40 ~ +85°C
- Ambient Relative Humidity   10 ~ 95% (non-condensing)
- Humidity   0 ~ 95% (non-condensing)

Standards and Certifications

- **EMC**：CE, FCC
- **EMI**：EN 301489 , FCC Part 15B Class B
- **EMS**：EN 301489
- **Vibration**：IEC60068-2-6
- **Radio :** EN 301511, EN 301908-1, EN 301908-2, EN 301908-13, EN 300328, EN 303413, EN 62311

Ordering Information

Model	Description
K330	Compact Industrial 4G LTE Cellular Router (1 x WAN, 1 x LAN, 1 x RS232 , 1 x DI, 1 x DO, 1 x micro SIM Slot, GPSx1, -30 ~ +75°C)
K330-W	Compact Industrial Wi-Fi 4G LTE Cellular Router (1 x WAN, 1 x LAN, 1 x RS232 , 1 x DI, 1 x DO, 1 x micro SIM Slot, GPSx1, Wi-Fi, -30 ~ +75°C)

Options of Bands/Frequencies (MHz)

Option	4G		3G	2G	Region
	FDD LTE	TDD LTE	WCDMA	GSM / EDGE	
E	B1(2100), B3(1800), B5(850), B7(2600), B8(900), B20(800)	B38(2600), B40(2300), B41(2500)	B1(2100), B5(850), B8(900)	B3(1800), B8(900)	Europe Africa Middle East Korea Thailand India
A	B2(1900), B4(1700), B12(700)		B2(1900), B4(1700), B5(850)		North America
AU	B1(2100), B2(1900), B3(1800), B4(1700), B5(850), B7(2600), B8(900), B28(700)	B40(2300)	B1(2100), B2(1900), B5(850), B8(900)	B2(1900), B3(1800), B5(850), B8(900)	Australia New Zealand South Africa Taiwan
J	B1(2100), B3(1800), B8(900), B18(850), B19(850), B26(850)	B41(2500)	B1(2100), B6(850), B8(900), B19(850)		Japan

* Features and specifications are subject to change without prior notice.

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