Compact Industrial LTE Cellular Router with 2 ETH Ports

- Global 4G LTE/ 3G/ 2G, CAT4, CAT M1, NB-IoT networks compatible

- 2x 10/100 Mbps Ethernet ports (1-WAN + 1-LAN, or 2-LAN), WiFi

- plug-and-play easy to use, webUI based configuration and serial-to-ip program

- Compact size with DIN-Rail and panel mounting Supported

- -35°C to +75°C Operating Temperature, 5-36V VDC wide range power inputs, watchdog and reliable connectivity technology for industrial environment

Introduction

The Elastel Elink series industrial cellular router ER200, is an IoT cellular router that integrates 4G LTE, Wi-Fi, and dual 10/100 Mbps Ethernet ports. With its global 4G LTE/ 3G/ 2G, CAT M1, NB-IoT networks compatibility, industrial reliability, and VPN technologies, ER200 is great applied for your industrial IoT connectivity. Rugged and Compact design equipped with two Ethernet ports, 1xRS232 and 1xRS485, features an OpenWRT based configurable firmware, ER200 is widely applicable to a variety of industrial solutions.
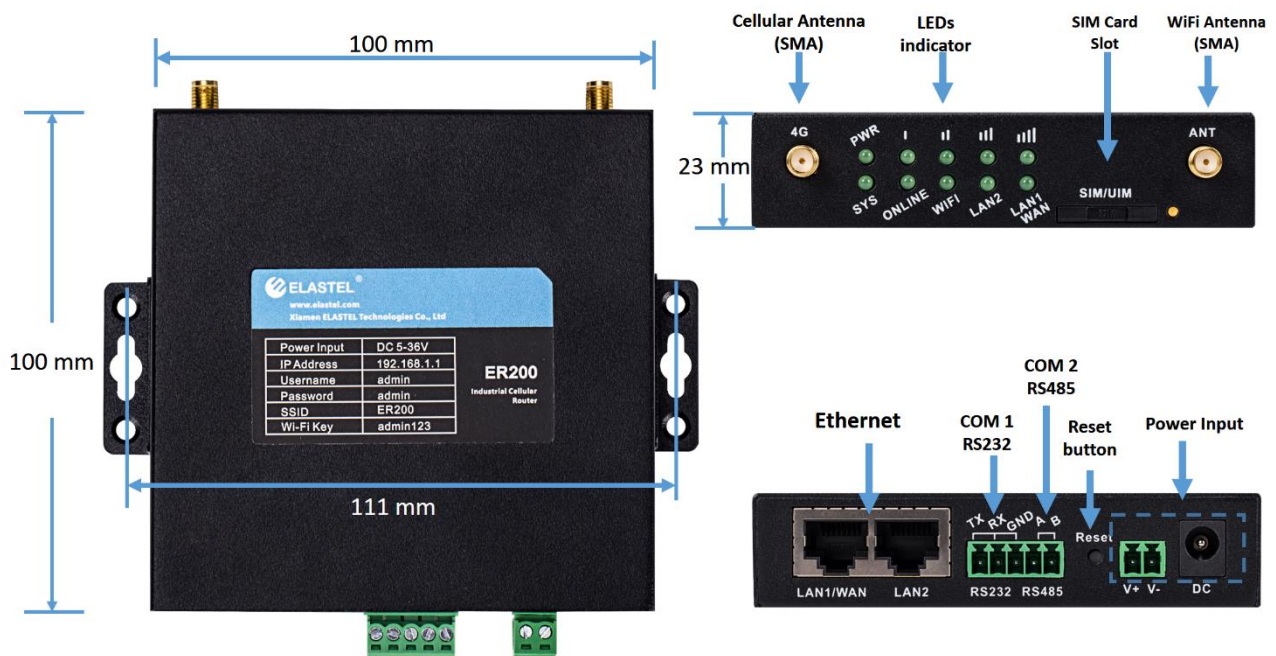
With high speed 4G LTE CAT4, middle and lower speed CATM1, NB-IoT, wired network, and Wi-Fi connections available, enhanced by Elastel failover and auto-recovery technology, the ER200 enables you to build your seamless edge networks with minimum effort.

With full industrial-grade design, integrated hardware watchdog, multi-layer software failover, backup and auto recovery mechanism, guarantee this compact cellular router reliably working on wide temperature, electromagnetic, lightning surge…unattended harsh environment.

Besides, leverage its 1xRS485 + 1xRS232 serial ports, and easy-to-use, flexible configurable OpenWRT-based firmware, Elastel talented customers has configured and customized ER200 for their specific applications in data acquisition and processing at field sites as well as a useful communications platform for many other large-scale deployments.

Appearance

Specifications

Hardware Platform	
CPU	MediaTek@ 580MHz
DRAM	64MB DDR2
Storage	16MB
Wireless	
Cellular module Slots	1 x mPCIe slot for Cellular module
SIM Slot	1 x Mini SIM (25mm*15mm); 15KV ESD protection
Band Options	**NA:** 4G LTE FDD@ B2/B4/B12/B13; 3G WCDMA@ B2/B4/B5; Carrier Approval: Verizon, AT&T **EMEA/APAC:** 4G LTE FDD@ B1/B3/B7/B8/B20/B28A; 4G LTE TDD@ B38/B40/B41; 3G WCDMA@ B1/B8; 2G GSM@ B3/B8; **ANZ/LATAM:** 4G LTE FDD@ B1/B2/B3/B4/B5/B7/B8/B28; 4G LTE TDD@ B40; 3G WCDMA@ B1/B2/B5/B8; 2G GSM@ B2/B3/B5/B8; Other options please contact Elastel representative.
Wi-Fi	IEEE 802.11b/g/n, 150Mbps
Wi-Fi mode	Support AP and Client modes
Antenna Connector	1x 4G Cellular SMA, 1x Wi-Fi SMA
Interfaces	
Ethernet Ports	2 x 10/100 Mbps Ethernet for LAN/WAN configurable; 1.5KV network isolation transformer protection;
Serial Ports	1-RS232, 1-RS485; 5-PIN industrial terminal block; 15kV ESD protection;
Reset Button	1x Pinhole reset button
Power Parameters	
Power Supply	DC5-36V, over-current protection, anti-reverse connection; 2 PIN terminal block and Plug-in connector;
Power Consumption	Working Mode: 250~310mA@12V DC; Standby Mode: 150~230mA@12V DC;
Indicators	
LED Indicators	8 LEDs (Power, System, LAN1/WAN, LAN2, SIM Online, WiFi, Signal Strength)
Physical Characteristics	
Dimensions	100 × 100 x 23 mm (L×W×H)

Housing	IP30 Metal
Installation	DIN-rail mounting Panell mounting
Weight	300g
Environmental Limits	
Ambient Relative Humidity	5 to 95% (non-condensing)
Operating Temperature	-35 to 75°C (-31 to 167°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Reliability	
Alert Tools	External RTC with Backup button battery
Automatic Reboot Trigger	External WDT (watchdog timer)
Package Contents	
Device	1 x ER200 device with Terminal Block preinstalled
Antenna	1x Mag-mount Cellular Antenna (SMA Male, 1 meter, 12dBi), 1x RP-SMA WIFI Antenna
Installation Kit	Panel mount kits (DIN-rail mount kits optional)
Power Adapter	DC 12V/1.5A (optional)
Software Features	
OS	ElastOS (OpenWRT based) with Serial-to-IP Data Acquisition programs
Configuration management	WebUI, Local CLI, Remote configuration, factory reset/backup, Syslog local/remote export
Network Protocols	PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, BGP, DNS, DDNS, HTTP, ARP, QoS, SNTP, Telnet, SSH…
VPN	PPTP, L2TP, GRE, IPSEC VPN (IKEv1/IKEv2), OPENVPN protocols, Supports CA digital certificate
Serial to IP	Modbus RTU/TCP Data acquisition, MQTT, HTTP, OPC UA
Reliability & Security	WWAN and WAN Failover, multi-layer detection and auto recovery mechanism, firewall, ACL, port mapping, virtual IP mapping, IP-MAC binding
Secondary Development	OpenWrt based OS with SDK support
Warranty	
Warranty Period	1 year

About Elastel

Elastel Technology Ltd is a global leading design and manufacturing company providing industrial-quality wireless solution for IoT and M2M. Founded in 2018, Elastel leverages its independent research and development and innovation to pursue its core mission: "Streamline IoT communication development, shorten and simplify the process of system implementation"

The company's high-quality industrial Computer & Gateway hardware and software service enhance the IoT communication efficiency and competitive advantages of its customers all over the world.

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Technical Support

Send email to Elastel Support center (support@elastel.com) for firmware upgrade, product documents, FAQ, technical support and more.