

Industrial Dual-SIM 5G Router with 5 ETH Ports

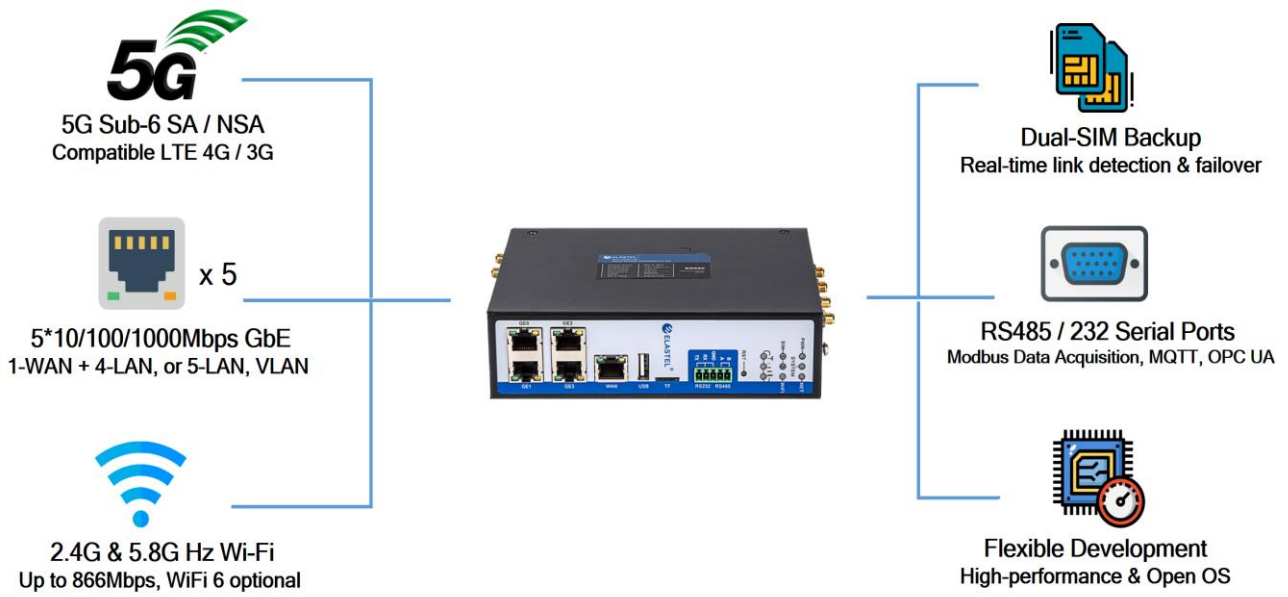
- Global 5G NR Sub-6 bands, SA and NSA dual modes, and 4G LTE, 3G WCDMA networks compatible
- 5x 10/100/1000 Mbps GbE ports (1-WAN + 4-LAN, or 5-LAN)
- 2.4G & 5.8G Hz Dual-band Wi-Fi, Up to 866.7Mbps;
- Dual-core ARM Cortex-A53@ 1GHz CPU, 512MB RAM, and 4GB eMMC
- OpenWRT based OS, with dpkg tools and SDK available
- Plug-and-play easy to use, WebUI based configuration and serial-to-ip SCADA program
- Industrial Reliability: Dual SIM, Dual power input backup, DIN-rail and panel mounting Supported, -35°C to +75°C Operating Temperature, 9-36VDC wide range power inputs, watchdog and always-online connectivity technologies.



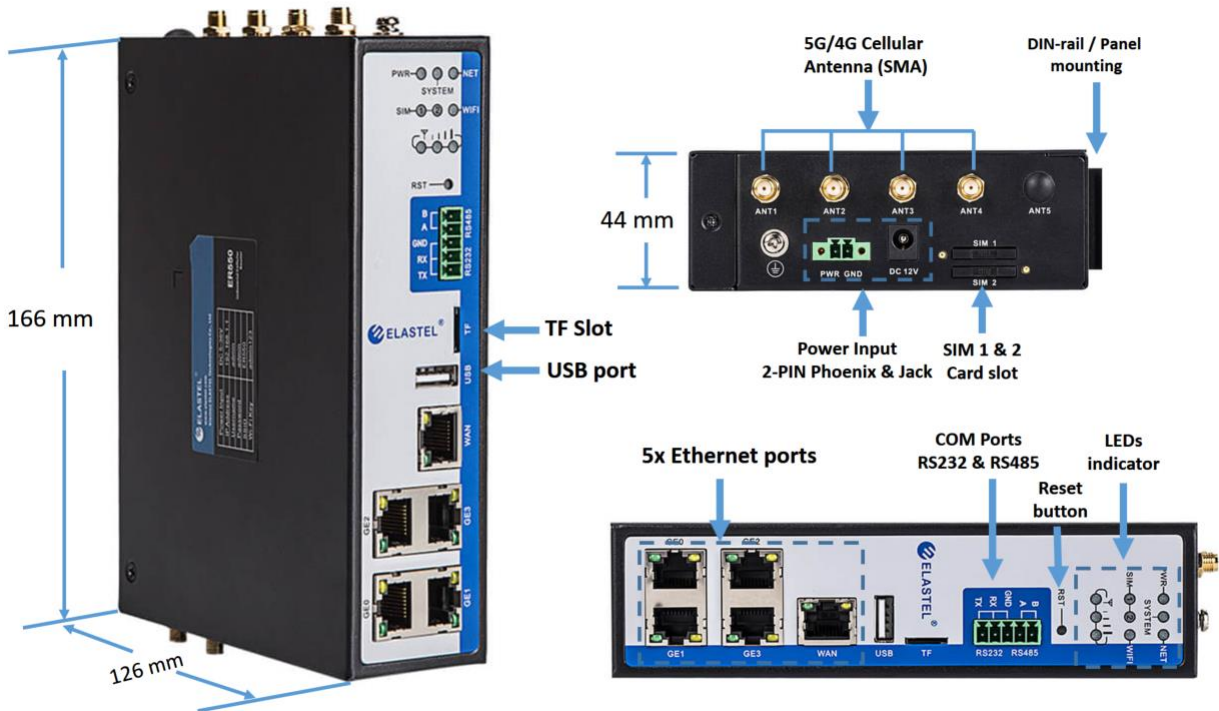
Introduction

The Elastel Elink series industrial router ER550, is a dual-SIM 5G Gigabit router that integrates global 5G, and compatible 4G & 3G, with 5x 10/100/1000 Mbps GbE ports and dual-band Wi-Fi support, also extended 1xRS232 and 1xRS485 serial ports for industrial usages.

Powered by high-performance dual-core ARM-based CPU @1GHz, 512MB RAM and 4G eMMC flash, running on an OpenWRT based configurable OS, makes Elastel ER550 not just an industrial high speed 5G router, but also a powerful IIoT Gateway for your edge data processing and communication applications.



Appearance



Specifications

Hardware Platform	
CPU	Dual-core ARM Cortex-A53@ 1GHz
DRAM	512MB DDR3
Storage	4GB eMMC
Wireless	
Cellular	5G Sub-6 SA/NSA, 4G LTE, 3G WCDMA
SIM Slot	Dual SIM (25mm*15mm); 15KV ESD protection
Wi-Fi	Dual Band 2.4GHz & 5.8GHz, Up to 866.7Mbps
Wi-Fi 6	Optional
Antenna Connector	4x 5G/4G Cellular, 2x Wi-Fi SMA (3 Reserved for extra Wi-Fi and GPS)
Interfaces	
Ethernet Port	5 x 10/100/1000 Mbps GbE for LAN/WAN configurable; 1.5KV network isolation transformer protection;
Serial Port	1-RS232, 1-RS485; 5-PIN industrial terminal block; 15kV ESD protection;
USB Port	1x USB2.0
TF Card	1x TF Card slot
Reset Button	1x Pinhole reset button
Power Parameters	
Power Supply	DC9~36V, over-current protection, anti-reverse connection; 2 PIN terminal block and Jack connectors;
Power Consumption	Working Mode: 500~700mA@12V DC; Standby Mode: 300~500mA@12V DC;
Indicators	
LED Indicators	9 LEDs (Power, System, NET, SIM1/SIM2, WiFi, 3x Signal Strength)
Physical Characteristics	
Dimensions	126 × 44 x 166 mm (L×W×H)
Housing	IP30 Metal
Installation	DIN-rail mounting Panel mounting
Weight	670g
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)
MTBF	≥100,000 Hours

Package Contents	
Device	1 x ER550 device with Terminal Block preinstalled
Antenna	4x Mag-mount Cellular Antenna (SMA Male, 1 meter, 12dBi), 2x Mag-mount WIFI Antenna
Installation Kit	Panel mount kits (DIN-rail mount kits optional)
Power Adapter	DC 12V/2A (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, DPKG tools available with SDK support
Warranty	
Warranty Period	2 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.

Copyright

Copyright © 2023 ELASTEL (XIAMEN) TECHNOLOGIES CO., LTD.

Copyright © 2023 Elastel (Xiamen) Technologies CO., LTD. All rights reserved. No parts of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, photocopying, recording, or otherwise, for any purpose, without the express written permission of Elastel (Xiamen) Technologies CO., LTD.

Technical Support

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