

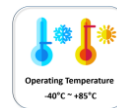
Cost-efficient Embedded Computer for Industrial IoT Gateway

- Arm 64bit Dual-core A35 @800MHz, 128MB RAM + 8GB eMMC
- 4 x isolated RS232/485 COM ports, 2x 10/100 Mbps Ethernet port
- Supports 4G LTE/3G/2G/NB-IoT and Wi-Fi options connectivity
- Compact enclosure support 35mm DIN-Rail and wall mount installation
- Preloaded Linux 5.10 OS for easy configuration and programmability
- Preloaded ElastPro software ready for OT-to-IT integration
- -40 °C to +85 °C operating range, EMI/Surge protection, industrial-grade design



Introduction

Elastel EG324 Lite is an Arm-based industrial computer designed as a cost-effective IoT gateway for IIoT applications like data acquisition, edge computing, remote monitoring, and more. As the **Lite version**, it reduces CPU and RAM for an optimized performance-to-cost balance while keeping the other same hardware design.



It provides 4× RS485/232 COM ports, 2× 10/100 Mbps Ethernet ports, and a mini-PCIe slot supporting 4G LTE/3G/2G/NB-IoT and Wi-Fi modules for wireless connectivity.

With industrial-grade design, EG324 Lite ensures reliable operation from -40 °C to +85 °C under EMI and surge conditions. CE, FCC, RoHS certified.



Pre-installed Linux OS and ElastPro software make it ready for OT-to-IT integration with flexible programmability for custom solutions.

Appearance



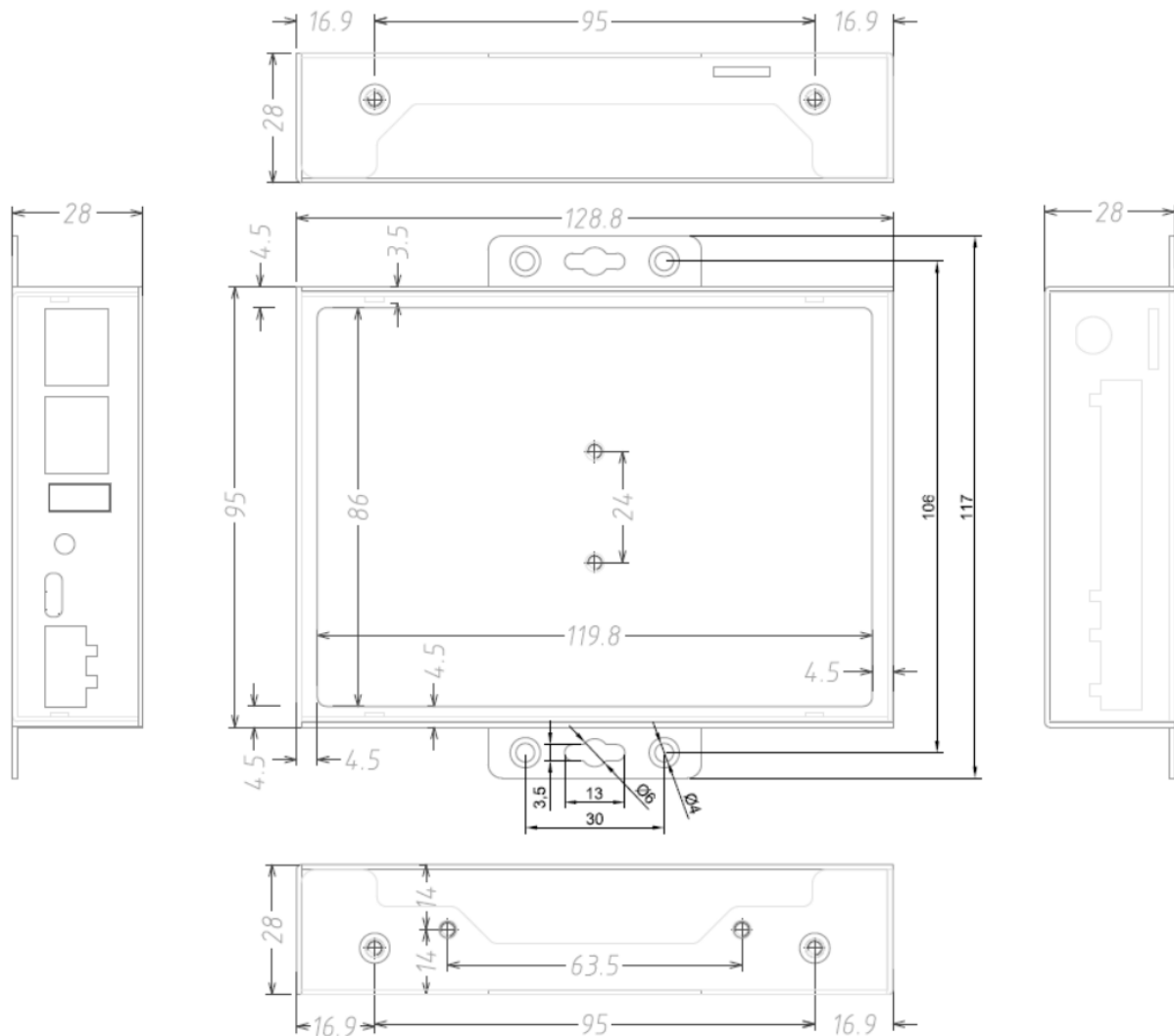
Specifications

System	
CPU	ARM64 dual-core A35 @800MHz
RAM	128MB (512MB optional)
Storage	8 GB eMMC
Storage Expansion	1x TF slot (up to 128GB)
Serial Interface	
Serial Port (Isolated)	2 x RS485 + 2 x RS-232/485
Protection	Surge 4KV ESD ±15kV IEC61000-4-2 Air Discharge ESD ±15kV Human Body Model
Ethernet Interface	
Ethernet Port	2 x Auto-sensing 10/100 Mbps Ethernet port
Protection	Surge 2KV ESD ±15kV IEC61000-4-2 Air Discharge ESD ±15kV Human Body Model

Wireless Interface	
Wireless Module Slot	1 x miniPCle socket for Cellular module or Wi-Fi module
SIM Format	1x Micro SIM (12mm*15mm)
Antenna Connector	1x SMA Female connector for Cellular or Wi-Fi antenna
Cellular Band Options	NA: 4G LTE-FDD@ B2/B4/B5/B12/B13/B14/B66/B71; 3G WCDMA@ B2/B4/B5; 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/B4/B5/B8; 2G GSM@ B2/B3/B5/B8; Other options please contact Elastel representative.
Wi-Fi Band Options	2.4~2.4835GHz or 5.15~5.85GHz IEEE802.11a/b/g/n/ac
USB Host	
USB 2.0	1 x USB 2.0, support peripheral devices (like USB Wi-Fi adaptor)
Power output	5V@500mA (switch on/off programmable)
Protection	Output Over Load protection ESD ±8kV IEC61000-4-2 Air Discharge ESD ±6kV Human Body Model
Other Interface	
Console Port	1 x UART type-C connector
Button	1x Button for Reset and Reboot
Power Parameters	
Power Input	9 ~ 48 VDC, 12 ~ 30 VAC, recommended DC 12V/1.5A
Power Consumption	Average: 6 W Peak: 10 W
Protection	Overvoltage & polarity reverse protection Surge 4KV ESD ±15kV IEC61000-4-2 Air Discharge ESD ±15kV Human Body Model
Indicators	
LED Indicator	Power x 1, System (programmable) x1, Cellular WAN x1, WAN x1, COM<x> trans x 8 (TX + RX)

Cellular LED status	Searching network: Slow flashing (200ms ON/1800ms OFF) Idle Status: Slow flashing (1800ms ON/200ms OFF) Transmission: Fast flashing (125ms ON/125ms OFF)
Buzzer	Built-in buzzer x 1, for warning alarm (programmable)
Reliability	
RTC	Built-in RTC inside with Backup CR2032 button battery
Watchdog	Built-in WDT inside for auto recovery
Physical Characteristics	
Dimension	128.8mm×117mm×28mm (L×W×H)
Housing	IP30 Metal
Installation	DIN-rail mounting Wall mounting
Weight	470 g (1.04 lb)
Environmental Limits	
Ambient Relative Humidity	5 to 95% (non-condensing)
Operating Temperature	-40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Certifications	
CE	EN55032/35 IEC61000-4-2/3/4/5/6 IEC 62368-1 IEC 62311
FCC	FCC PART 15B ANS1C63.4:2014
RoHS	IEC62321-3/4/5/6/7/8
Software Features	
Pre-installed OS	Linux 5.10
OT-to-IT Integration	Modbus RTU/ASCII/TCP Master/Slave, BACnet MSTP/IP IEC104, DNP3, OPC UA, EtherNet/IP, PLC protocols, MQTT, Sparkplug B...data collect and conversion Powered by ElastPro
Secondary Development	Node-Red (optional), Python, C, C++, C#, Java, JavaScript
Package Contents	
Device	1 x EG324 Lite device with Terminal Block preinstalled
Antenna	Mag-mount Antenna (SMA Male, 1 meter, 12dBi). Only for cellular or Wi-Fi version.
Installation Kit	1 x DIN-rail kit
Warranty Period	1 year

Dimensions



About Elastel

Elastel is a technology-driven company providing IIoT products and services globally. With 10+ years of industry experience, Elastel has developed series Open, High-performance, Reliable, and Easy-to-use IIoT devices like **Industrial Raspberry Pi**, **Arm-based industrial computer** for IIoT Gateway, **Industrial Cellular Router**, etc. Besides, to simplify users IIoT solutions deployment, Elastel also provide software services including the IIoT Gateway software “**ElastPro**” to easy data collection and communication, and the “**ThingsWing**” SaaS platform for secure remote access and management.

Elastel leverages its independent R&D 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 © 2025 ELASTEL (XIAMEN) TECHNOLOGIES CO., LTD.

Copyright © 2025 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.