

High-performance Edge Computer with Industrial Design

- High-performance Raspberry Pi Compute Module 4 running up to 1.5GHz
- 2x Integrated 10/100/1000 Mbps Ethernet ports for WAN/LAN
- Global 4G LTE/3G/2G Cellular network compatible
- Dual-band 2.4GHz/5GHz Wi-Fi
- 2x HDMI Output at up to 4Kp60
- Fanless design with Aluminum heatsink shell
- Expandable Storage: M.2 NVME Socket for SSD Expansion
- Raspberry Pi OS programs Compatible



The Elastel ElastBox400 is an industrial computer designed for industrial IoT and M2M applications. Powered by Raspberry Pi Compute Module 4, high-performance ARM Cortex-A72 1.5GHz CPU, with 2GB RAM and 8GB eMMC (Variety CM4 with diverse RAM and Storage optional), which enables ElastBox400 performing edge computing at a micro server level hardware platform.

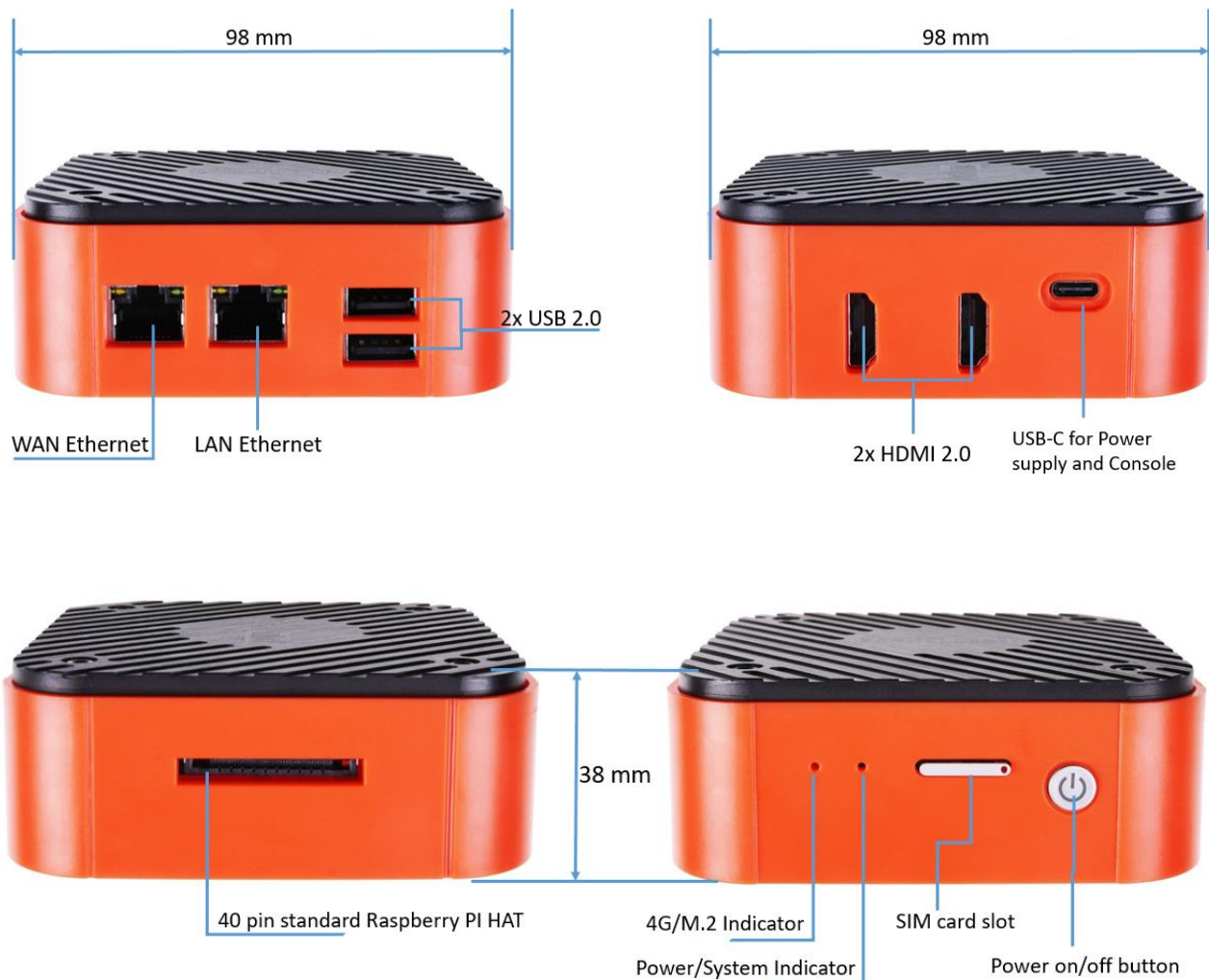
Compatible with 4G LTE, 3G, 2G, NB-IoT cellular network, and 2x Gigabit Ethernet connectivity. 2x HDMI up to 4K Ultra HD output, advanced peripherals on dual USB ports, the ElastBox400 is the engine of Unattended Retail, Digital Signage, Edge Computing solutions. Benefit from Raspberry Pi OS and thriving ecosystem, it allows develop various kinds of applications as your needs.

Specifications

| Hardware platform | |
|----------------------------------|--|
| CPU | Broadcom BCM2711, Quad-core A72 (ARM v8)@ 1.5 GHz |
| Memory | 2GB (1GB/4GB/8GB optional) LPDDR4 |
| FLASH | 8GB (16GB/32GB optional) eMMC |
| Network & Interfaces | |
| Ethernet | Gigabit Ethernet x 2, (1-WAN+1-LAN or 2-LAN Configurable) |
| Cellular | 4G LTE CAT4/CAT6, 3G, 2G, NB-IoT, CAT-M1 via mPCIe |
| Wi-Fi | Built-in Dual-band 2.4GHz/5GHz 802.11b/g/n (optional) |
| Bluetooth | Built-in BT 5.0 Supported (Optional) |
| GPS | Cellular Module built-in supported (Optional) |
| SIM | 1.8 V/3 V; drawer-type Nano card holder × 1 15KV ESD Protection |
| Antenna | 4G: inside SMA x 1、WiFi/Buletooth: inside SMA x 1 |
| USB | USB 2.0 x 2 for peripherals, USB-C x 1 for Power supply and Console |
| HDMI | HDMI 2.0 x 2, (Up to 4kp60 video & audio output) |
| Additional drive | 1 x M.2 socket with 2280 NVME SSD support 40 pin standard Raspberry PI HAT connector (Adaptor line needed) |
| Power | |
| Power supply | 5V/3A via USB-C port |
| Power switch | Switch button for power on/off |
| Power consumption | Less than 10 W (system) |
| (Optional) Real-time clock (RTC) | Embedded RTC, power supply with a supercapacitor |
| Mechanical features | |
| Protection | IP30 |
| Housing | Aluminum Heatsink with ABS Body |
| Cooling | Fanless cooling |
| Dimensions (cm) | 98mm x 98mm x 38mm |
| Ambient temperature and humidity | |
| Storage temperature | -30 ~ 75°C |
| Ambient humidity | 5 ~ 95% (non-condensing) |
| Operating temperature | -20 ~ 70°C (industrial grade) |
| EMC index | |
| Static electricity | level 3 |
| Radiated electric field | level 3 |
| Surge | level 3 |
| Others | |
| Certification | CE |
| Warranty | Standard 12 Months |

| Software Features | |
|----------------------------|---|
| OS | Raspbian with peripheral ports drivers /OpenWRT V21 |
| Configuration | WebUI, Local CLI, Remote configuration |
| Upgrade operate | Local USB upgrade and remote upgrade (optional) |
| Timed startup and shutdown | Supported |
| Application features | VPN, Route Control, Firewall, NAS, Media Player... Node-RED, Docker..., Support Secondary Development. |
| Network Features | WWAN and WAN Failover, Load Balance, PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, BGP, DNS, DDNS, HTTP, MQTT, ARP, QoS, SNTP, Telnet, SSH |

Dimensions



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.



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