



ED-IPC1000

Datasheet

by EDA Technology Co., Ltd

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ED-IPC1000

Low-cost Industrial Computer based on Raspberry Pi CM0

- 1GHz quad-core 64-bit Arm Cortex-A53 processor
- 512MB SDRAM, options for 8GB/16GB eMMC and 32GB SD card
- 1 x HDMI, 2 x USB 2.0, 1 x 100M Ethernet
- Optional 2.4GHz Wi-Fi and Bluetooth
- USB Type-C for 5V power input
- Integrated RTC and Watch Dog, CR2032 battery supported for RTC backup power
- Pre-installed with thermal paste and a passive cooler to provide effective cooling
- Supports DIN rail mounting



Specifications

System	
CPU	1GHz quad-core 64-bit Arm Cortex-A53 processor
VPU	H.264/MPEG-4 video decoding, 1080p@30fps H.264 encoding, 1080p@30fps
GPU	OpenGL ES 1.1/2.0 graphics processing
Memory	512MB SDRAM
Storage	8GB or 16GB eMMC storage available Optional 32GB Micro SD card (used for system boot when using the CM0Lite module).

Software	
Operating System	Raspberry Pi OS (Desktop) 64-bit Raspberry Pi OS (Lite) 64-bit Raspberry Pi OS (Desktop) 32-bit Raspberry Pi OS (Lite) 32-bit

Front I/O	
Power	1 x DC input, USB Type-C connector, supports 5V input.
HDMI	1 x HDMI port, Type-A connector, compliant with HDMI 1.3a standard, supports 1080p resolution at 30Hz.
USB 2.0	2 x USB 2.0 ports, stacked Type-A connector, each supporting a maximum data transfer rate of 480Mbps.
100M Ethernet	1 x adaptive 10M/100M ethernet port, RJ45 connector. It can be used to access the network.

Rear I/O	
Micro SD Card Slot	1 x Micro SD card slot, supports installation of a Micro SD card for system boot. Note: The Micro SD card slot is only compatible with the CM0Lite.

Side I/O	
Antenna Interface	1 x Antenna interface, SMA connector, for Wi-Fi/BT antenna
RTC Battery Interface	1 x RTC battery interface, supports installation of CR2032 battery via this interface.
DIP Switch	1 x DIP switch, supports switching between normal operation mode and flashing mode. • LD: Flashing mode • RUN: Normal operation mode (default state)

Buttons and Indicators	
PWR	1 x red power indicator, used to display the device's power on/off status.
ACT	1 x green system status indicator, used to monitor the device's operating status.
Reset	1 x reset button, recessed design, pressing the button restarts the device.

Expansion Functions	
RTC	Integrated RTC function with an RTC battery interface, supporting the installation of a CR2032 battery as RTC backup power.
Watch Dog	Built-in Watch Dog function, enhancing system reliability.

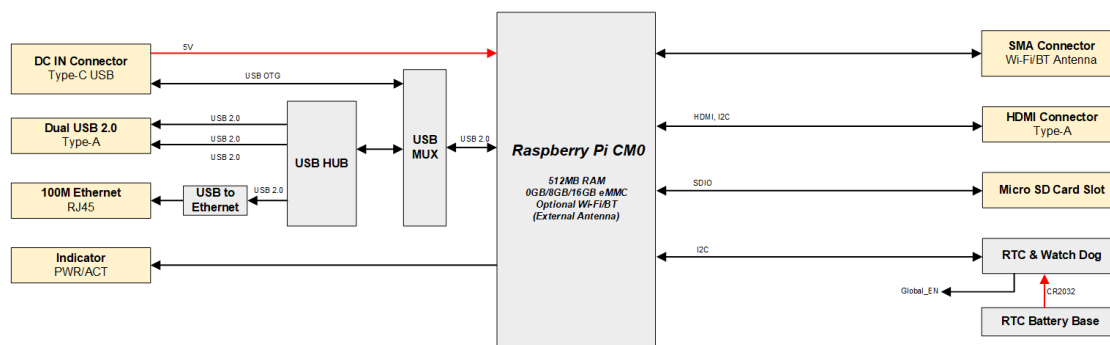
Electrical Characteristics	
Input Voltage	5V DC
Power Consumption	About 3.5W

Mechanical Characteristics	
Dimensions	107.5mm x 94.5mm x 26mm (W x D x H, DIN-rail bracket and antenna are not included)
Weight	About 320g
Installation	DIN rail mounting

Wireless	
Wi-Fi/Bluetooth (optional)	Supports 2.4GHz Wi-Fi and Bluetooth, with an external antenna. • 2.4GHz Wi-Fi: Compatible with IEEE 802.11 b/g/n • Bluetooth 5.0: Compatible frequency band 2402MHz ~ 2480MHz

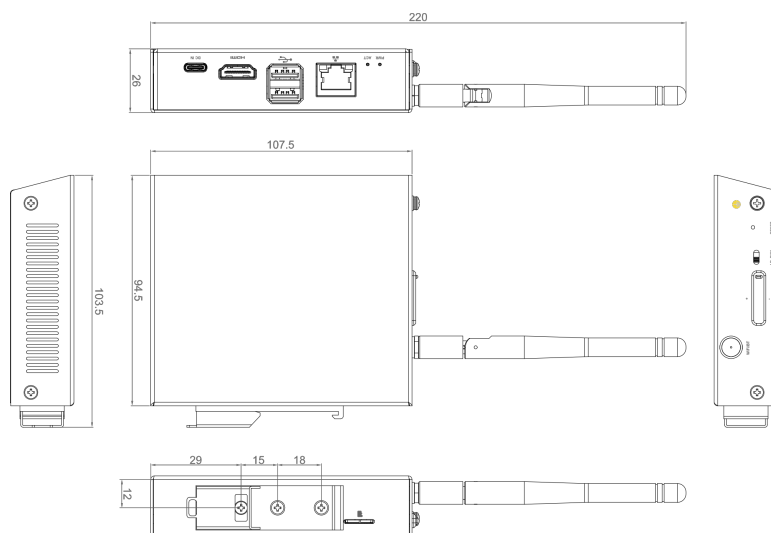
Environmental & Regulatory	
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-20°C ~ 60°C
Ambient humidity	5% ~ 95% (non-condensing)

System Diagram



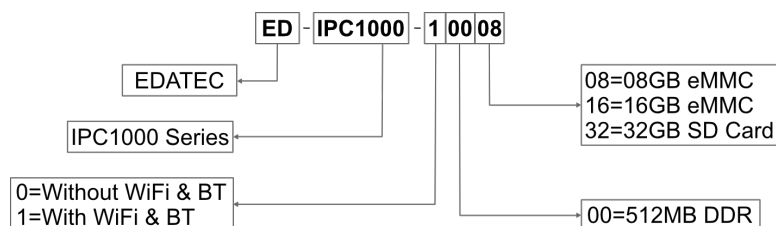
Dimensions

Unit: mm



Ordering Information

Coding Rules



Example

P/N: **ED-IPC1000-10008**

Configuration: Industrial Computer Based on Raspberry Pi CM0, with Wi-Fi & Bluetooth, 512MB DDR and 8GB eMMC.

Ordering Code

Model	Description	Stocking Level
ED-IPC1000-10008	Wi-Fi/BT, 8GB eMMC	Standard Stock
ED-IPC1000-10032	Wi-Fi/BT, 32GB SD Card (CM0Lite)	Standard Stock
ED-IPC1000-10016	Wi-Fi/BT, 16GB eMMC	Build-to-Order
ED-IPC1000-00032	Without Wi-Fi, 32GB Micro SD Card (CM0Lite)	Build-to-Order

TIP

If you require products with other configurations, please contact our sales team separately.

Packing List

- 1 x ED-IPC1000 Unit
- [Optional Wi-Fi/BT Version] 1 x 2.4GHz Wi-Fi/BT antenna