

ED-IPC3400

Datasheet

by EDA Technology Co., Ltd

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ED-IPC3400

Industrial Computer Based on Raspberry Pi CM5

- Broadcom BCM2712 quad-core Cortex-A76 (ARM v8) 64-bit SoC @ 2.4GHz
- Up to 16GB LPDDR4 RAM and 64GB eMMC storage
- Optional Micro SD Card support
- Expansion support for Hailo-8 13 TOPS module or M.2 NVMe SSD
- Dual Gigabit Ethernet ports: 1 x 2.5 Gigabit and 1 x Gigabit
- 1 x USB 3.0, 2 x USB 2.0, 1 x HDMI
- 2.4GHz & 5GHz Wi-Fi and Bluetooth wireless connectivity
- 9V~28V power input with TVS transient voltage protection
- Integrated RTC, EEPROM, and encryption chip
- Wide operating temperature range: -20°C ~ 60°C
- High-quality metal enclosure, supports DIN rail mounting



Specifications

System	
CPU	Broadcom BCM2712, quad core Cortex-A76 (ARM v8) 64-bit SoC @ 2.4GHz
VPU	H.265 (HEVC), up to 4Kp60 decode
GPU	OpenGL ES 3.1 & Vulkan 1.2
Memory	Options for 2GB, 4GB, 8GB, 16GB LPDDR4-4267 SDRAM
Storage	Options for 16GB, 64GB eMMC storage Micro SD card (optional 32GB/64GB; used for system boot when using CM5Lite.) M.2 NVMe SSD (options for 128GB, 256GB, 512GB)

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

Front I/O	
Power	1 x DC Input, DC Jack (5.5x2.5) connector; supports 9V~28V input.
HDMI	1 x HDMI, Type-A connector, compliant with HDMI 2.0 standard, supports 4K@60Hz resolution.
USB 2.0	2 x USB 2.0, Type-A connector, up to 480Mbps transfer rate per port.
USB 3.0	1 x USB 3.0, Type-A connector, up to 5Gbps transfer rate.
2.5G Ethernet	1 x Ethernet port (10/100/1000M/2500M adaptive), RJ45 connector for network access.

Front I/O	
Gigabit Ethernet Port	1 x Ethernet port (10/100/1000M adaptive), RJ45 connector for network access.

Rear I/O	
SD Card Slot	1 x Micro SD card slot, using to install Micro SD card for system boot. Note: Micro SD card support is valid only with CM5Lite.
Type-C USB	1 x Type-C USB port, supports eMMC flashing via this interface.

Side I/O	
Antenna	1 x SMA port (optional), using to connect Wi-Fi/BT antenna.

Buttons and Indicators	
ON/OFF Button	1 x ON/OFF button for powering the device off.
PWR	1 x red power indicator, using to check the status of device power-on and power-off.
ACT	1 x green system indicator, using to check the working status of device.

Internal I/O	
40-Pin GPIO	1 x GPIO Pin Header, 2x20-Pin, 2.54mm pitch, exposes CM5 GPIO pins for expansion accessories.
M.2 M Key Interface	1 x M.2 M Key connector for external SSD or Hailo AI module. The SSD and Hailo AI module support only one of the two options; they cannot be installed simultaneously. • Compatible with M.2 M 2230, M.2 M 2242, M.2 M 2260, and M.2 M 2280 SSDs. • Compatible with Hailo-8 13 TOPS module.
MIPI Interfaces	2 x 4-lane MIPI interfaces, 22-Pin FPC connectors, designated as DPHY0 (MIPI0) and DPHY1 (MIPI1). Both support expansion for Raspberry Pi camera and Raspberry Pi touch display.

Expansion Functions	
EEPROM	Supports 4K byte storage and improves the ease of use of device.
Crypto Authentication	It can be matched to realize the required upper layer application and improves the security of device.
RTC	Integrated RTC maintains system clock during power-off; includes RTC battery holder supporting CR1220 battery backup.

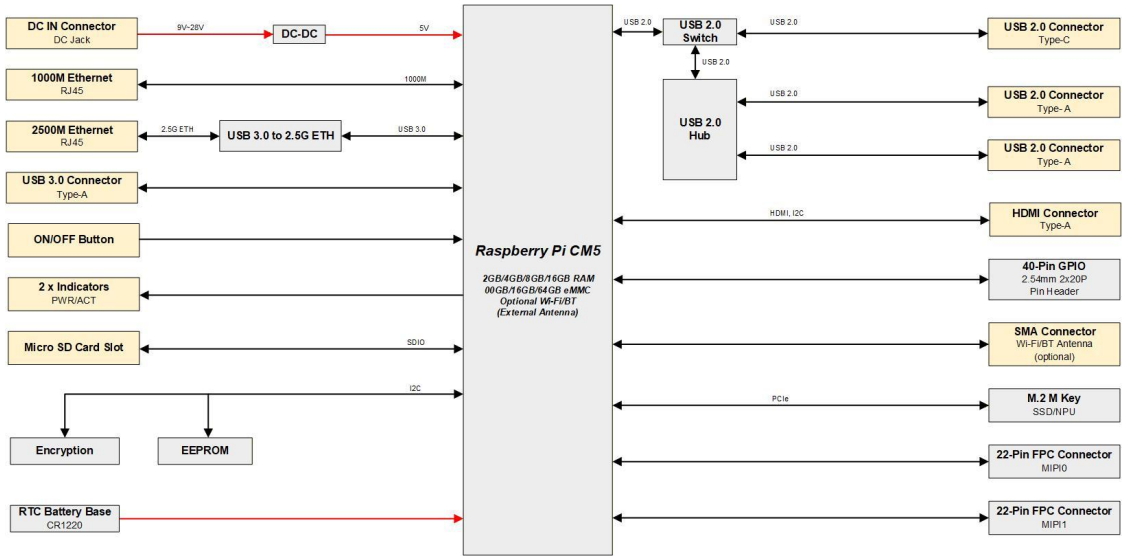
Electrical Characteristics	
Input Voltage	9V~28V DC Note: A 12V 4A power adapter of EDATEC is recommended.
Power Consumption	24W (Max)

Mechanical Characteristics	
Dimensions	120mm x 100mm x 36mm (WxDxH, DIN-rail bracket and antenna are not included.)
Weight	About 600g
Installation	DIN rail mounting

Wireless	
Wi-Fi/Bluetooth (optional)	2.4GHz & 5GHz dual-band Wi-Fi and Bluetooth with antenna. • 2.4GHz Wi-Fi: Compatible with IEEE 802.11 b/g/n • 5GHz Wi-Fi: Compatible with IEEE 802.11 a/n/ac • The Bluetooth supports 2402MHz ~ 2480MHz frequency

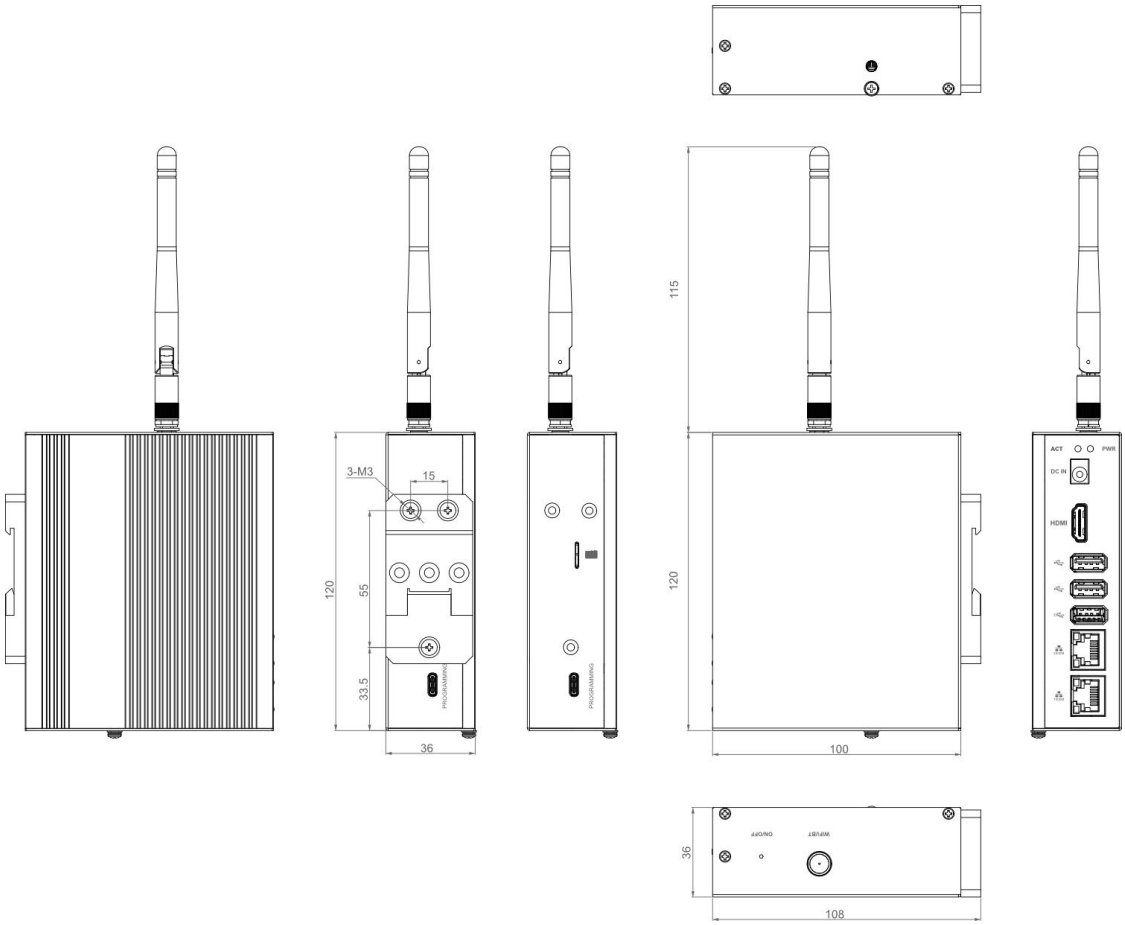
Environmental & Regulatory	
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-20°C ~ 60°C
Ambient Humidity	5% ~ 95% (non-condensing)

System Diagram



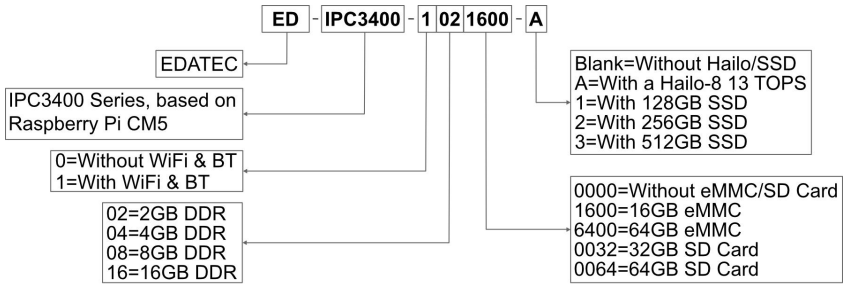
Dimensions

Unit: mm



Ordering Information

Coding Rules



Example

P/N: **ED-IPC3400-1080000-3**
Configuration: Industrial Computer Based on Raspberry Pi CM5, with Wi-Fi & Bluetooth, 8GB DDR, 512GB SSD, 1 x USB 3.0, 2 x USB 2.0 and 1 x 2.5G Ethernet Port.

Ordering Code

Model	Description	Stocking Level
ED-IPC3400-1020032	Wi-Fi/BT, 2GB DDR, 32GB SD Card	Preview
ED-IPC3400-1046400	Wi-Fi/BT, 4GB DDR, 64GB eMMC	Preview
ED-IPC3400-1021600-A		Preview

Model	Description	Stocking Level
	Wi-Fi/BT, 2GB DDR, 16GB eMMC, a Hailo-8 13 TOPS Module	
ED-IPC3400-1160000-3	Wi-Fi/BT, 16GB DDR, 512G SSD	Preview

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

Optional Accessory

You can choose a power adapter according to actual needs.

Model	Description	Picture
ED-PSU1204-UK	100~240VAC to 12VDC/4A adapter, equipped with UK standard AC plug and DC Jack plug	
ED-PSU1204-US	100~240VAC to 12VDC/4A adapter, equipped with US standard AC plug and DC Jack plug	
ED-PSU1204-AU	100~240VAC to 12VDC/4A adapter, equipped with AU standard AC plug and DC Jack plug	
ED-PSU1204-EU	100~240VAC to 12VDC/4A adapter, equipped with EU standard AC plug and DC Jack plug	
Note: Each model includes only one type of AC plug (UK, US, AU, or EU).		

Package Contents

- 1 x ED-IPC3400 Unit
- [Wi-Fi/BT Version - optional] 1 x 2.4GHz&5GHz Wi-Fi/BT Antenna