

AI-100

AI & Compute

The AI-100 combines a powerful AI accelerator and the compute power and flexibility of a Raspberry Pi CM5 and a selection of IO.

Key Features:

- » Pi CM5 compute board
- » M.2 supporting Hailo, DeepX, Brainchip, Encharge
- » IO and RTC

- » Part Number: 4160280xx-3

AI & Compute Features

Powerful edge AI accelerators that enhance machine learning workloads with minimal power consumption, ideal for smart kiosks, industrial automation, and AI-powered signage. Based on M2 modules:

- Hailo
- DeepX
- Brainchip
- Encharge

The CM5 offers a familiar yet powerful processing environment, making it ideal for applications requiring Linux-based computing, AI, and industrial automation.

- High-performance Arm CPU, suitable for embedded applications.
- Dual CSI camera support for computer vision applications.
- PCIe 3.0 interface for high-speed peripheral connectivity.
- 2 x Direct HDMI output from CM5 for independent video output

I/O Interfaces

- SPI, I2C, UART, GPIO for peripheral expansion.
- RS232 support for legacy device compatibility.
- Infrared (IR) input for remote control functionality.
- Switch mount input for external buttons and controls.

Networking & Storage

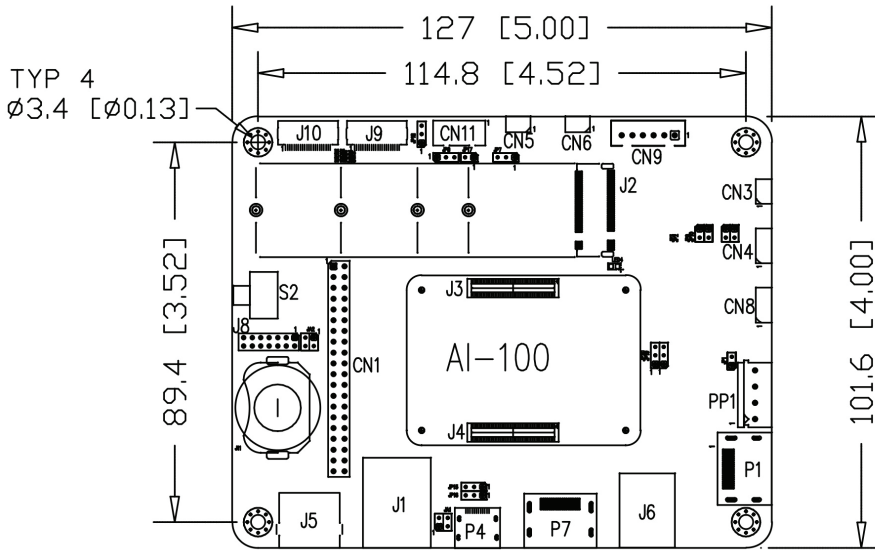
- Gigabit Ethernet (CM5 LAN support) for high-speed networking.
- USB 3.0 x2 for peripherals, external storage, or high-speed data transfer.
- Micro SD Card support for local storage.

Reliability

Calculated MTBF: To be announced
 Warranty: 3 years

AI-100 AI Acceleration with Compute

Mechanical Drawing



Connector Definitions

CN1	Reserved
CN3	I2C port
CN4	RS-232 control interface
CN5	I2C port
CN6	I2C port
CN8	RS-232 control interface
CN9	SPI port
CN11	2 x GPIO port
J1	RJ45 Gigabit Ethernet
J2	M2 module connector
J4	CM5 module connector
J5	Micro SD card socket
J6	2 x USB3.0 port
J9	MIPI DSI/CSI-2 FPC connector
J10	MIPI DSI/CSI-2 FPC connector
P1	HDMI output - 2
P4	USB-C input
P7	HDMI output - 1
PP1	12V DC input
S2	CM5 reset button

Ordering Options

AI-100

P/N: 4160280xx-3

Drawings

- » 2D (DWG, PDF)
- » 3D (SLDPRT, STEP)

Download at:

<https://www.digitalview.com/board-ai-100>

Available Resources

- » Instruction manual
 - » Revision control documentation
 - » Firmware upgrade manual**
 - » Mechanical drawing
 - » Custom engineering: Splash screen, OSD menu, coatings, & more...
- ** Available on request

Controller Solution Generator

<http://www.digitalview.com/csg>

USA

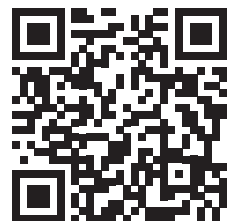
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