

# MIRU130 NEW

Machine Vision SBC with AMD® Ryzen™ Embedded V1807B and V1605B APU, DisplayPort, HDMI, 2 GbE LAN, 2 IEEE 802.3at PoE GbE LAN and Vision-specific I/O

## Features

- AMD® Ryzen™ Embedded V1807B and V1605B APU
- 2 DDR4 SO-DIMM for up to 16GB of memory
- 2 GbE LAN and 2 IEEE 802.3at PoE GbE LAN
- 2-CH camera trigger outputs
- 2-CH LED lighting control
- 1-CH incremental quadrature encoder input
- 4 isolated DIO

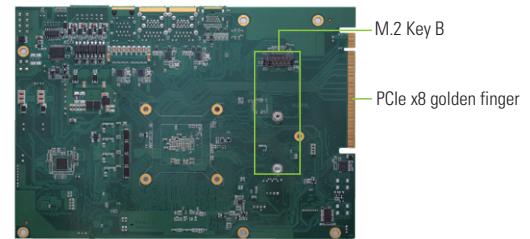
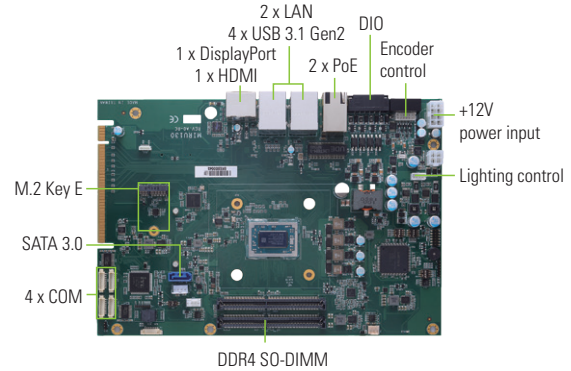


### Core System

CPU	AMD® Ryzen™ Embedded V1807B or V1605B APU onboard
System Memory	2 x 240-pin DDR4-2400 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 for optional) in 22x42 or 22x80 or 30x42
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1, USB 2.0) in 22x30 1 x PCIe x16 golden finger (PCIe x8 signal)
Battery Lithium	Lithium 3V/220mAh
Power Input	4 x 2 pin connector +12V DC-in AT Auto Power On function supported
Power Requirements	AMD® V1807B@ 3.35GHz 16GB DDR4 Max RMS: +12V @6.4A AMD® V1605B@ 2.0GHz 16GB DDR4 Max RMS: +12V @2.8A
Dimensions	244 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Relative Humidity	10% - 95% relative humidity, non-condensing

### I/O

SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 x 10/100/1000 Mbps with Realtek RTL8111G; support Wake-on-LAN, PXE Boot ROM 2 x PoE port 10/100/1000 Mbps with Realtek RTL8111G; support Wake-on-LAN, PXE Boot ROM and 30W (IEEE 802.3at )
Audio	N/A
USB	4 x USB 3.1 Gen2
Serial	1 x RS-232/422/485 3 x RS232
TPM	SPI interface for TPM module
SMBus	Yes
Vision I/O	1 x Incremental quadrature encoder (A/B/Z) 2 x LED lighting control (24V/max 0.5A)
Digital I/O	2 x Trigger in (response time <1us, sink type @ 0-30V, source type) 2 x Trigger out for camera (response time <1us, @ 12V) 2 x Isolated digital in (sink type @ 0-30V, sink/source type) 2 x Isolated digital out (sink type, open collector @ 5-30V, 200mA max each)



### Display

Chipset	AMD® Radeon™ RX Vega graphics
Memory Size	Share System memory
Display Interface	1 x DisplayPort 1 x HDMI

### Packing List

Accessories	
594L1301200E	Lighting control cable
594L1303500E	DIO cable

### Ordering Information

Standard	
MIRU130PH4G-V1807B (P/N: E38L130100)	AMD® Ryzen™ Embedded V1807B (3.35 - 3.8 GHz, 2MB Cache, 45W) SBC with DisplayPort, HDMI, 2 GbE LAN, 2 PoE GbE LAN and fan
MIRU130PH4G-V1605B (P/N: E38L130101)	AMD® Ryzen™ Embedded V1605B (2.0 - 3.6 GHz, 2MB Cache, 15W) SBC with DisplayPort, HDMI, 2 GbE LAN, 2 PoE GbE LAN, and fan