

CAPA13R

3.5" Embedded SBC with AMD Ryzen™ Embedded V1807B/V1605B APU, DisplayPort++, 2 HDMI, LVDS, and 4 GbE LAN

Features

- AMD Ryzen™ Embedded V1807B and V1605B APU
- 1 DDR4 SO-DIMM for up to 16GB of memory
- Supports quad-view display
- 4 GbE LAN
- M.2 Key E
- M.2 Key B



Core System

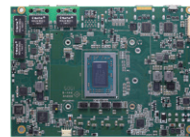
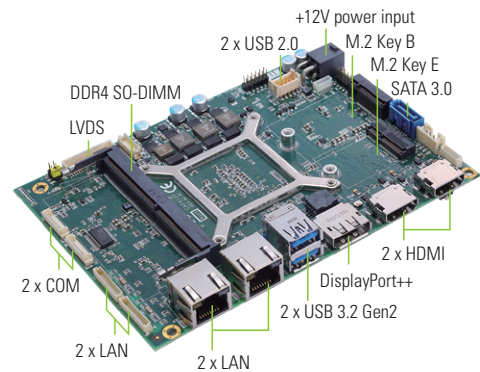
CPU	AMD Ryzen™ Embedded V1807B/V1605B APU onboard
System Memory	1 x 260-pin DDR4-2400 (V1605B), DDR4-3200 (V1807) SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 for optional) in 22 x 42 or 30 x 42
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1, USB 2.0) in 22 x 30
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirement	AMD V1605B @2.0 GHz 16GB DDR4, min. RMS. +12V@2.5A AMD V1807B @3.35 GHz 16GB DDR4, min. RMS. +12V@4.2A
Dimensions	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
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 Ethernet with Realtek RTL8111G; support Wake-on-LAN, PXE Boot ROM 2 x 10/100/1000 Mbps Ethernet with Realtek RTL8111G; support Wake-on-LAN, PXE Boot ROM (optional)
Audio	HD audio link
USB	2 x USB 2.0 2 x USB 3.2 Gen2
Serial	1 x RS-232/422/485 1 x RS-232
TPM	ST ST33HTPH2E32AHB4 with TPM 2.0 compliant
SMBus	N/A
Digital I/O	8-channel in/out programmed

Display

Chipset	AMD Radeon™ RX Vega Graphics
Memory Size	Share System memory
Display Interface	1 x DisplayPort++ 2 x HDMI 1 x LVDS; 18/24-bit single/dual channel



▲ Rear view



▲ Assembly View



▲ APC200

APC200, Industrial Chassis

SBC Option	CAPA13RPHGG-V1605B w/fan (P/N: E38E13R108)
I/O	2 x GbE LAN 2 x USB 3.2 Gen2 1 x DisplayPort++ 2 x HDMI 1 x 12V DC Jack
Dimensions (with wall mount ear)	197.4 mm (7.77") (W) x 139.6 mm (5.5") (D) x 49.6 mm (1.95") (H)
Operating Temperature	-10°C to +50°C (+14°F to +122°F)
APC200-2G-V1605B	Embedded chassis with CAPA13RPHGG-V1605B, 8GB RAM, 64GB M.2 Key B card and 12V/60W adapter

Ordering Information

Standard	
CAPA13RPHGG-V1605B	3.5" Embedded SBC with AMD Ryzen™ V1605B (2.0-3.6 GHz, 2MB Cache, 15W), DisplayPort++, 2 HDMI, LVDS, and 2 GbE LAN; without fan
CAPA13RPHGG-V1605B w/fan	3.5" Embedded SBC with AMD Ryzen™ V1605B (2.0-3.6 GHz, 2MB Cache, 15W), DisplayPort++, 2 HDMI, LVDS, 2 GbE LAN, and fan
CAPA13RPHGG-V1807B	3.5" Embedded SBC with AMD Ryzen™ V1807B (3.35-3.8 GHz, 2MB Cache, 45W), DisplayPort++, 2 HDMI, LVDS and 2 GbE LAN; without fan
CAPA13RPHGG-V1807B w/fan	3.5" Embedded SBC with AMD Ryzen™ V1807B (3.35-3.8 GHz, 2MB Cache, 45W), DisplayPort++, 2 HDMI, LVDS, 2 GbE LAN, and fan
Optional	
CAPA13RPH4G-V1605B	3.5" Embedded SBC with AMD Ryzen™ V1605B (2.0-3.6 GHz, 2MB Cache, 15W), DisplayPort++, 2 HDMI, LVDS, and 4 GbE LAN; without fan
CAPA13RPH4G-V1605B w/fan	3.5" Embedded SBC with AMD Ryzen™ V1605B (2.0-3.6 GHz, 2MB Cache, 15W), DisplayPort++, 2 HDMI, LVDS, 4 GbE LAN, and fan
CAPA13RPH4G-V1807B	3.5" Embedded SBC with AMD Ryzen™ V1807B (3.35-3.8 GHz, 2MB Cache, 45W), DisplayPort++, 2 HDMI, LVDS, and 4 GbE LAN; without fan
CAPA13RPH4G-V1807B w/fan	3.5" Embedded SBC with AMD Ryzen™ V1807B (3.35-3.8 GHz, 2MB Cache, 45W), DisplayPort++, 2 HDMI, LVDS, 4 GbE LAN, and fan
AX93A22	HD codec audio board for Mic-in/Line-in/Line-out
594H3186800E	Buzzer cable 9 x 55 mm 2-pin, L=400 mm
59380880250E	COM port cable DB9-9 x 1P, P=1.25, L=250 mm
594E8422800E	2 x USB 2.0 cable with bracket, 180 mm
7128E13R000E	Heatspreader