

## POC-500 ULTRA-COMPACT INDUSTRIAL-GRADE COMPUTER

New!

POC-516  
AMD Ryzen™ V1605B, 4x GigE PoE+, 4x USB 3.0,  
MezIO™ R12

- AMD Ryzen™ V1000 architecture
- Designed for DIN-rail mounting
- Wide temperature range -25 °C ..+70 °C
- 4x GigE PoE+, 4x USB 3.0



### PRODUCT DESCRIPTION

POC-500 series is the next generation ultra-compact embedded controller offering performances never-seen-before in this form factor. Featuring AMD Ryzen™ Embedded V1000 4-core/ 8-thread processor, it delivers up to 3x times the CPU performance over previous POC series. GPU performance wise, it delivers an unheard of 3.6 TFLOPS in FP16 for an ultra-compact form factor embedded controller. Another amazing feat is that it manages to incorporate an M.2 2280 NVMe SSD (PCIe Gen3 x2) to support 2x times the disk read/ write speed over typical 2.5" SATA SSDs.

POC-500 series continues the POC series ingenious DIN-rail mounting mechanical design and offers plenty of front-accessible I/Os. Measuring just 63 x 176 x 116 mm (2.5" x 6.9" x 4.6"), it has 4x PoE+ ports, 4x USB 3.0 ports and 4x COM ports. And best of all, all data ports come with screw-lock mechanism so you can be rest assured that cables are always secured. POC-500 series is available in two CPU variants, the V1807B (45W) variant is for high computing power demand and the V1605B (15W) variant is designed for rugged fanless operation.

The arrival of POC-500 series signifies a new breed of ultra-compact embedded controller; one with better I/O design, extraordinary ruggedness and significantly more CPU/ GPU oomph for versatile applications.

### SPECIFICATIONS

DC Input	1x 3-pin plug
Depth	116 mm
Graphics	Vega GPU with 8 compute units
Hard Drive Interface - Mini-Pcie	1x full-size mini PCI Express socket with internal SIM socket
Hard Drive Interface - SATA	1x SATA 2.5" on MezIO R12 module
Height	176 mm
Humidity	10 % ~ 90 % non-condensing
I / O Ports - Connection	4+4 channel isolated digital I/O (MezIO-R12)
I / O Ports - Ethernet Port	4x Gigabit Ethernet (Intel® I350-AM4)
I / O Ports - Serial	1x Software-programmable RS-232/422/485 ports (COM1), 3x 3-wire RS-232 ports (COM2/3/4) or 1x RS-422/485 port (COM2)
I / O Ports - USB	4x USB 3.0

I / O Ports - Video	1x VGA (1920 x 1200), 1x DisplayPort (4096 x 2160)
I/O ports - M.2	1x M.2 2280 M key NVMe slot (PCIe Gen3 x2)
Memory RAM	16 GB
Mounting	DIN-rail mounting, wall mount (optional)
Poe Capacity	IEEE 802.3at PoE+
PoE max	4
Processor	AMD Ryzen V1605B (4C/ 8T, 2M Cache, 2.0/ 3.6 GHz, 12W - 25W TDP)
Remote control	1x3-pin pluggable terminal block for remote control and PWR LED output
Remote Control	Yes
Supply Voltage DC Max	35 V DC
Supply Voltage DC Min	8 V DC
Temperature range bearing, from	-40 °C
Temperature range bearing, to	85 °C
Temperature range from	-25 °C
Temperature range to	70 °C
Type of memory	1x DDR4-3200 SDRAM SODIMM
Weight	1.2 kg
Width	63 mm

