

dBOX310-140

AMD Ryzen™ Embedded V1000 APU Gaming Platform



▲ I/O view

Features

- High-end All-In-One AMD gaming platform
- GLI verified Trustedboot and TrustedData
- Supports PCIe graphic card
- Lifetime long-term supply

Specifications

CPU	AMD Ryzen™ Embedded V1807 APU
System Memory	2 x DDR4 SO-DIMM up to 3200MHz, max. up to 32GB
BIOS	AMI-uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog Timer	1 sec. to 255 min.
Expansion Interface	1 x PCIe x16 slot, 1 x Mini PCI Express (supports Low-Profile card/PCIe x8 signal only)
Power Input	DC +12V
Dimensions (W x D x H)	240 x 210 x 105 mm
Operating Temperature	0°C to 40°C (32°F to 104°F)
Relative Humidity	10% to 90%, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption
Display	
Graphic	AMD high performance Radeon™ VEGA series graphics
Display Interface	4 x DP++, up to 4 independent displays with 4096 x 2160 resolution per display output



Specifications

I/O

USB	3 x USB 3.0 (1 x internal) 4 x USB 2.0
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 3 x RS-232 (1 x ID003, 2 x ccTalk configurable) 1 x SAS (hardware 9-bit supported)
Audio	HD audio 5.1 channels Line-out or stereo 6 W + 6 W audio amplified output
Storage	2 x SATA 3.0 port support SATADOM with 7-pin power/1 x SATA 3.0 + 1 x CFast socket (BOM optional) 2 x CFast card (Via SATA to CFast adapter)
Ethernet	2 x GbE LAN port

Gaming Function

Intrusion Detection	8 x intrusion detection (2 x internal, 6 x external) Operates with and without AC Power Logs date/time of last 200 events
Digital Input	32 x protected input 4 x DIP switch
Digital Output	29 x 500 mA/30V OC output (8 x meter configurable) 3 x 3A/30V OC output
NVRAM	4MB (2 or 8MB optional) TrustedData, hardware bank mirroring and CRC
Software Support	Windows/Linux sample code and demo program provided SAS 6.02 COM port driver provided

Software

OS Support	Windows® 10 IoT Enterprise, Linux
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Ordering Information

dBOX310-140-1807	AMD Ryzen™ Embedded V1807APU, 4 x DP++, 5 x COM 7 x USB, 2 x GLAN, audio, Mini-PCIe, DC 12 V input
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