

# dBOX310-140

AMD Ryzen™ Embedded V1000 APU  
Gaming Platform

## Features

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



## System

CPU	AMD Ryzen™ Embedded V1807 APU
Memory	2 x DDR4 SO-DIMM up to 3200 MHz, max. up to 32 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog timer	1 sec to 255 min
Expansion	1 x PCIe x16 slot, 1 x Mini-PCIe (supports Low-Profile card / PCIe X8 signal only)
Power Input	DC +12V
Dimensions	240 mm (W) x 210 mm (D) x 105 mm (H)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

## 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 SATAIII port support SATADOM with 7-pin power/ 1 x SATAIII + 1 x CFast socket (BOM optional) 2 x CFast card ( Via SATA to CFast adapter )
Ethernet	2 x GbE LAN port



## Display

Graphic	AMD high performance Radeon™ VEGA series graphics
Interface	4 x DP++, up to 4 independent displays with 4096 x 2160 resolution per display output

## 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	4 MB (2 or 8 MB 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	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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\* All specifications and photos are subject to change without notice.

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