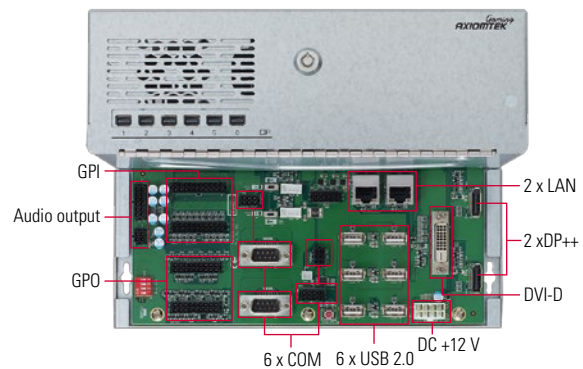


# AGP310-137

AMD Embedded R-Series SoC  
Gaming Platform

## Features

- High-end AMD all-in-one gaming platform
- GLI verified TrustedBoot and TrustedData
- Supports 9-bit serial port for SAS 6.02
- Compact size and supports up to 9 displays outputs
- Lifetime long-term supply



## System

CPU	AMD Embedded R-Series SoC, formerly codenamed "Merlin Falcon"
Memory	2 x DDR4 SO-DIMM up to 2400 MHz max. up to 32 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog Timer	1 sec to 255 min
Power Input	DC +12 V
Dimensions	232 mm (W) x 187 mm (D) x 170 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 Integrity security - Unique key protection

## I/O

USB	1 x USB 3.0 (internal) 6 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) 2 x RS-232 (hardware 9-bit supported)
Audio	HD audio 5.1 channels Line-out or stereo 6W + 6W audio amplified output
Storage	2 x SATA III, SATADOM supported
Ethernet	2 x GbE LAN port

## Gaming Function

Intrusion Detection	8 x intrusion detection (1 x internal, 7 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/30 V OC output (8 x meter configurable) 3 x 3 A/30 V OC output
NVRAM	4 MB (2 MB or 8 MB optional) TrustedData, hardware bank mirroring and CRC
Software Support	Library, demo program, sample code provided

## Software

OS	Windows® 7, 10
Gaming API	Windows/Linux sample code and demo program provided
Others	SAS 6.02 COM port driver provided

## Display

Optional Discrete Graphic	AMD Radeon™ HD10000 Series DirectX® 12, OpenGL® 4.2, and OpenCL™ 1.2 MXM 3.1 Type A supported
Interface	2 x DP++, 1 x DVI-D Up to additional 6 x DP via MXM 3.1 graphic card

## Ordering Information

AGP310-137-421	AMD Embedded R-Series gaming platform with RX-421SoC, 2 x DP++, DVI-D, 7 x USB, 4 MB NVRAM, MXM slot
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