

VBOX-3210

AMD Merlin Falcon Embedded Platform RX-421BD / RX-216GD APU with 2 x DP / 2xCOM / 5 x GbE / 4xPOE / 2xUSB3.0 / DC Input 9~48V In-Vehicle Computer



Delay Time



Power Ignition



Wide Range



Wireless



Battery Backup



Taiwan Patent No. M447854

System

CPU AMD RX-421BD Quad Core 2.1GHz up to 3.4 GHz*
AMD RX-216GD Dual Core 1.6GHz up to 3.0 GHz
(Optional GX-224IJ, GX-215JJ)

*Config to 15W

Memory 2 x SO-DIMM DDR4 up to 32GB
(1 x SO-DIMM DDR4 for GX series)

Graphics AMD Radeon™ graphics

ATA 2 x Serial ATA GEN 3.0

LAN Chipset 2 x Intel i210-AT; Ethernet Switch: 1 x Marvell 88E6176

Watchdog 1 ~ 255 level reset

I/O

Serial Port 2 x RS232/422/485 (option additional 2 x RS232)

USB Port 2 x USB 3.0 ports and 2 x USB 2.0 Ports

LAN 5 x RJ45 Ports GbE (Optional for 4 x POE 802.3at/af*)

Video Port 2 x DP (Option additional 1 x VGA for RX series)

GPIO Port 4 In and 4 Out

Audio Mic-in/Line-out(Optional Line in)

Expansion Bus 3 x Mini-card slots
1 x M.2 A-E key 2230 slot

Antenna 4 x SMA-type External Antenna Connectors

SIM Card Socket 2 x SIM Card Sockets Supported Onboard with eject

* When Power Input \geq 24V, total PoE outputs is 100W max.

When Power Input < 24V, total PoE output is 60W max.

Power Requirement

Power Input 9V - 48V DC Power Input

Power Management Vehicle Power Ignition for Variety Vehicle

Power Off Control Power on/off Delay Time Setting by Software

Battery (UPS) Internal Battery backup Kit for 10 Mins Operating (Optional)

Patent No. : M447854 - Build-in Battery

Features

- AMD Merlin Falcon RX-421BD/RX-216GD
- Wireless support LTE, 3.5G, WLAN, GPS, GSM/GPRS, Bluetooth
- 5 x GbE w/optional 4 x POE 802.3at
- Input 9-48V with Ignition for Variety Vehicle
- 3 x Mini PCIe card & 1 x M.2 for extension
- 2 x DP, 1 x VGA option

Storage

Type 1 x 2.5" Drive Bay for SATA Type Hard Disk Drive / SSD
1 x Cfast slot

Software

Operating System WES 7, Windows 10, Linux Ubuntu 16.04

Environmental

Operating Temp. -40 ~ 70°C (w/SSD)

Storage Temp. -40 ~ 85°C

Relative Humidity 5 ~ 95% (non-condensing)

Vibration(random) IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis with SSD

Vibration Operating MIL-STD-810G, Method 514.6, Procedure I, Category 4

Shock Operating: MIL-STD-810G, Method 516.6, Procedure I,
Trucks and semi-trailers=15G (11ms) with SSD

Certifications CE, FCC Class A, E13

Mechanical

Construction Aluminum Alloy

Mounting Wall-mount, Din Rail Mounting kit
(Optional Internal Battery backup Kit)

Weight 1405g

Dimensions 229 x 161 x 65 mm

Ordering Information

Part Number VBOX-3210-R421 (w/RX-421BD)

VBOX-3210-R216 (w/RX-216GD)

Description AMD R-Series APU W / 2 x DP / 2 x COM / 5 x GbE / 4 x POE / 2 x USB 3.0 / DC Input 9~48V In-Vehicle Computer