

SD3210

AMD Merlin Falcon Embedded Platform RX-421BD/
RX-216GD APU with 2 x DP/ 2 x COM/ 5 x GbE/
4 x POE/ 2 USB3.0/ DC Input 9~48V In-Vehicle
Computer

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



Delay Time



Power Ignition



Wide Range



Wireless



Battery Backup

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 (only 1 slot 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 USB2.0 Ports
LAN	5 x RJ45 Ports GbE (Optimal for 4 x POE 802.3at/af*)
Video Port	2 x DP, 1 x VGA (only for RX series)
GPIO Port	4 In and 4 Out
Audio	Mic-in/Line-out/Line-in
Expansion Bus	3 x Mini-card slots, 1 x M.2 A-E key 2230 (only for RX series)
Antenna	6 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)

Storage

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

Operating System	WES 7, Windows 10, Linux Ubuntu 16.04
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Environmental

Operating Temp.	-40 ~ 70°C (w/SSD), ambient w/ 0.6m/s airflow
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	240 x 161 x 85 mm

Ordering Information

Part Number	SD3210-R421 (w/RX-421BD) SD3210-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
State of Origin	Made in China