

Features

- ✦ **Intelligent Vehicle Ignition Interface**
SoC-based monitoring reacts to turn on/off the system according to predefined on/off delays based on ignition status with a broad voltage input range of 8-35VDC.
- ✦ **Certification**
E-mark, CE/FCC Class A, EMC-EN 55022 & 55024, Shock - IEC60068-2-27, Vibration - IEC60068-2-64 certificates for in-vehicle usage.
- ✦ **Versatile I/O Functions**
Dual Monitor Output, 2 x Gigabit Ethernet POE+ Ports, CANBUS 2.0A and 2.0B, Multiple Serial Ports and USB Ports provide a host of functionalities.
- ✦ **Dual mPCIe and USIM sockets**
Sockets support 3G, 4G, LTE, WLAN and GPS cards.
- ✦ **Solid State mSATA drive**
Operating System and applications run on Solid Status vibration proof internal mSATA disk drive.
- ✦ **2.5" HDD**
One (1) internal Hard Drive bay.
- ✦ **Broad Temperature Range**
-25C~70C at 100% CPU load.
- ✦ **Compact Size**
205 mm (W) x 146 mm (D) x 44 mm (H)
- ✦ **POE+**
Two (2) POE+ Ports 25.4W each
- ✦ **Vehicle Application Specific Recording Software**
Patronus Labs **Concert II Hybrid DVR/NVR Software** supports two User Interfaces with vehicle specific functionalities such as: Touch Screen Interface, Multi-channel Instant Playback, Mutli-channel playback speed adjust, Multi-Channel Audio Monitoring, simple archiving, etc.
- ✦ **Power on Record Mode**
The **Concert II Hybrid DVR/NVR Software** supports Power on record mode to prevent operator error. When the system is powered it is recording with no operator interaction required. This guarantees recording without failure.

FIRMUS II RUGGED PC - 2POE Series

...From Patronus Labs



Applications

The 2 POE model *FIRMUS II RUGGED PC* is one in a series of 11 *FIRMUS II RUGGED PC* models. The series can be used for any application fixed or mobile where high reliability, high vibration or broad temperatures are required.

Patronus Labs typically uses this series as: Rugged DVR/NVR servers, Rugged Work Stations, High-End Digital Signage appliances, GPS tracking device, Wi-Fi, 3G/4G/LTE gateway or a combination of all the above.

Custom software development is available to meet customer specific needs. Contact us for more details.

Models

Part Number	Description
CSRU1305	Rugged PC, Intel® Atom™ Bay Trail E384, Fanless, 2xPoE, 1x2.5" HDD, ignition control, 8-35 V DC

Options

Part Number	Description
CCC1333	4GB Low Voltage DDR3 RAM, 0°C to 85°C
CCC1334	8GB Low Voltage DDR3L RAM, 0°C to 85°C
CCSD1311	32GB mSATA MLC, 0°C to 70°C for Operating System
CCSD1312	64GB mSATA MLC, 0°C to 70°C for Operating System
CCAC1314	110/220VAC to 12VDC, 60W Power Supply
CCSW0178	Windows 7-Pro 64-bit
CCSW0267	Windows Embedded Standard 64-bit

Images



Specifications

Model	CSRU1305
Audio Port	1x Mic-in, 1x Speaker-out
CAN Bus	1x DB-9 connector for CAN Bus communications
Certifications	E-mark, CE/FCC Class A, according to EN 55022 & EN 55024
Dimension	205 mm (W) x 146 mm (D) x 44 mm (H)
Graphics	Integrated Intel® HD Graphics
Humidity	10%~90% , non-condensing
Memory	1x 204-pin SO-DIMM socket, up to 8GB DDR3L 1333MHz SDRAM
Mini PCI-E	1x full-sized mini PCI Express socket with USIM socket (PCIe + USB), 1x full-sized mini PCI Express socket with external USIM socket (USB)
Mounting	Patent-pending shock-absorbing wall-mounting (standard) or DIN-Rail mounting (optional)
mSATA	1x internal half-sized mSATA (SATA + USB)
Operating Temperature	-25°C ~ 70°C with SSD, 100% CPU loading */**, -10°C ~ 50°C with HDD, 100% CPU loading */**
PoE Port	2x IEEE 802.3at (25.5W) Gigabit Ethernet ports by Intel I210
Power	8~35V DC input, 1x 3-pin pluggable terminal block for ignition signal and DC input
Processor	Intel® Atom™ Bay Trail E3845 Quad-core Processor (1.91 GHz, 2M cache)
SATA HDD	1x Internal SATA port for 2.5" HDD/SSD installation
Serial Port	2x software-programmable RS-232/422/485 (COM1 & COM2)
Series Port	2x RS-232 (COM3 & COM4)
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
Storage Temperature	-40°C ~ 85°C
USB	1x USB 3.0 port and 3x USB 2.0 ports
Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes(w/ SSD, according to IEC60068-2-64)
Video Port	1x DB-15 connector for analog RGB, supporting 2560 x 1600 resolution / 1x DVI-I connector with DVI-D output, supporting 2560 x 1600 resolution (Supports HDMI Adaptor)
Weight	1.9 kg (including one 2.5" HDD and DDR3 SO-DIMM)

*The 100% CPU loading is applied using Passmark® BurnInTest™ v7.0.

**For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.