UNO-1110

TI Cortex AM3505 DIN-rail PC with 2 x LAN, 5 x COM, 4 x USB

NEW

Features

- TI Cortex A8 AM3505 600 MHz processor
- 256 MB DDR2 on board
- 4 x RS-232/422/485, 1 x RS-485 serial ports
- Dual 10/100 Mbps Ethernet
- 2 x SD card slots
- Windows® CE 6.0 Ready Platform and optional uClinux OS support
- Included Advantech DaigAnywhere for easy remote configuration & diagnosis
- DIN-rail and Wallmounting Options
- Onboard system & LED indicators
- Supports Microsoft .NET compact framework 3.5
- Fanless and no internal cabling design
- System/Field ground isolation

Introduction

Advantech's UNO-1110 series are RISC-grade embedded platforms that offer up to 2 LAN ports, 5 serial ports and 2 SD card slots. The UNO-1110 series also come with Windows CE 6.0/Linux OS, offering an integrated image. Additionally, the UNO-1110 series operate at temperatures between -10 ~ 70°C, and their small size and lightweight design allows it to be installed in tight industrial environments. The UNO-1110 series are excellent communication gateways for converting communication protocols, I/O control, and data storage in the industrial field.

Specifications

General

- **Certification** CE, FCC Class A, UL, CCC
- **Dimensions (W x H x D)** 50 x 154 x 127 mm (1.9" x 6.1" x 5")
- **Enclosure** Aluminium with solid mounting hardware
- **Mounting** DIN-rail, Wallmount
- **Industrial Grounding** Isolation between chassis and power ground
- **Power Consumption** 10 ~ 30 V_{DC} (13 W), AT, ground isolation, dual power inputs.
- **Weight** 0.45 kg
- **System Design** Fanless design with no internal cabling

System Hardware

- **CPU** TI Cortex A8 AM3505 600 MHz
- **Memory*** Onboard 256 MB DDR2
- **Display** DB15 VGA connector, up to 1024 x 768
- **Indicators** Power, Serial (Tx, Rx), SD
  4 x DI/2 x DO
  4 x programmable LED
- **Storage** 2 x SD card slots (one for boot and another for data storage)
- **Other** Realtime clock, Watchdog timer
- **SIM** 1 x card slot (reserved for project and will only have 1 x SD card slot left)
- **Expansion** 1 x Mini PCIe card slot (Signal Protocol: USB Differential)

*Note: up to 512MB DDR2 (reserved for project)

System Software

- **Operating System** WinCE 6.0/ Linux
- **Remote Management** Built-in Advantech DiagAnywhere agent on Windows

I/O Interface

- **Serial Ports** 4 x RS-232/422/485**, 1 x RS-485
  **COM3,4 optional isolation by project
  Automatic RS-485 data flow control, DIP Switch configuration
- **Serial Port Speed** RS-232: 300 ~ 115.2 kbps
  RS-422/485: 300 ~ 115.2 kbps (Max)
- **LAN** 2 x 10/100Base-T RJ-45 ports
- **USB** 4 x USB 2.0
- **Digital Input** 4 x Digital Inputs**
  Dry contact
         Logic level 0: Open
         Logic level 1: Close
- **Digital Output** 2 x Digital Outputs**
  **Optional isloation by project
  Open Collect to 30 V
  200 mA max Load, power dissipation 450mW
  ***Audio Line-out reserved for project

Environment

- **Ingress Protection** IP40
- **Operating Temperature** -10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature** -40 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** 20 ~ 95% (non-condensing)
- **Storage Humidity** 20 ~ 95% (non-condensing)
- **Shock Protection** Half-sine wave, 30G, 11ms
- **Vibration Protection** Random 1Grms

Ordering Information

- **UNO-1110-R11AE** TI Cortex AM3505 600MHz DIN-rail PC UNO-1110 with WinCE 6.0 (English)
- **PCLS-DIAGAW10** Advantech Remote Monitoring & Diagnosis Utility
- **SQF-ISDS1-1G-86E** 1GB SLC SD Card (-40 ~ 85° C)
- **2070012539** UNO-1110 Linux MUL Image

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All product specifications are subject to change without notice

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