

# UNO-1110

## TI Cortex AM3505 DIN-Rail PC with 2 x LAN, 5 x COM, 4 x USB, 1GB SD card



### 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 (1GB SD card included)
- 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<sub>DC</sub> (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 slot (built-in 1GB SD card for boot)
- 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 isolation 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

### Accessories

- PWR-247-CE** ADP A/D 100-240V 60W 24V (Commercial Grade)
- 1702002600** Power Cable US Plug 1.8 M (Industrial Grade)
- 1702002605** Power Cable EU Plug 1.8 M (Industrial Grade)
- 1702031801** Power Cable UK Plug 1.8 M (Industrial Grade)
- 1700000596** Power Cable China/Australia Plug 1.8 M (Industrial Grade)

### Embedded OS & Automation Software

- 2070014810** Image WinCE 6.0 Eng. for UNO-1110
- 2070014814** Image WinCE 6.0 TC for UNO-1110-R11AE
- 2070014812** Image WinCE 6.0 KR for UNO-1110-R11AE
- 2070014811** Image WinCE 6.0 JP for UNO-1110-R11AE
- 2070014813** Image WinCE 6.0 SC for UNO-1110-R11AE

### Ordering Information

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