UNO-1140/F

486SX-grade SoC DIN-rail PC with 1 x LAN. 8 x Isolated COM



Features

- Onboard Advantech EVA-4150 486SX SoC
- Four isolated RS-232/485 and four isolated RS-485 ports with automatic flow control for UNO-1140F; Four RS-232/485 ports for UNO-1140
- Industrial-grade serial port design without data loss
- One 10/100 Base-T RJ-45 port
- Two USB 2.0 ports and one internal CompactFlash®
- Compact size, small footprint, saves space
- Front-accessible I/O and DIN-rail design for easy installation in control cabinet
- Wide operating temperature range up to 75° C .
- Windows® CE 5.0, DOS, and Linux ready solution
- . Onboard system & I/O LED indicators
- · Fanless design with no internal cabling
- Grounding isolation between chassis and system
- IP40 ingress protection

Introduction

UNO-1140/F is an DIN-rail mounted, which provides several serial communication ports and Ethernet interfaces. With a compact size, small foot print and front accessible I/Os, UNO-1140/F is very convenient for wiring and DIN-rail installation in the control cabinet. The wide operation temperature support and industrial serial port design makes UNO-1140/F a perfect communication gateway even in critical environments. With OS and driver support on WinCE, Linux, users can integrate applications easily with an application ready platform that can provide a versatile function to fulfill diverse requirements.

Specifications

General

- Certifications CE, FCC Class A, UL, CCC
- Dimensions (W x H x D) 71 x 155 x 140 mm (2.8" x 6.1" x 5.9")

1 ka

CE

(Tx, Rx)

1 x PS/2

sec

Aluminum + SECC DIN-rail, Wallmount

10 W (Typical)

9 ~ 36 V_{DC} (e.g +24 V @ 1 A) (Min. 24 W), AT

Fanless design with no internal cabling

Onboard 64 MB Industrial grade SDRAM

CF: 1 x internal type I/II CompactFlash® slot

DOS (for UNO-1140 only), Windows CE 5.0, Linux

Built-in Advantech DiagAnywhere agent on Windows

Advantech EVA-X4150 SoC,486SX grade, 150MHz

LEDs for Power, CF, LAN (Active, Status) and Serial

DB15 VGA connector, supports up to 1024 x 768 @ 60 Hz

Programmable 256 levels timer interval, from 1 to 255

- Enclosure
- Mounting
- Industrial Grounding Isolation between chassis and power ground
- Power Consumption
- Power Requirement
- Weight
- OS Support
- System Design
- Remote Management

System Hardware

- CPU
- Memory
- Indicators
- Keyboard/Mouse
- Storage
- Display
- Watchdog Timer
- Environment
- Ingress Protection **IP40**
- Operating Temperature IEC 68 2-2 (with 100% CPU/ I/O loading)
- Operating Humidity
- -20 ~ 75° C (-4 ~ 167° F)
- 20 ~ 95% (non-condensing)

- Shock Protection
- Vibration Protection

IEC 68 2-64 (Random 1 Oct./min, 1hr/axis.) CompactFlash®: 5 Grms @ 5 ~ 500 Hz

I/O Interface

 Serial Ports UNO-1140: 4 x RS-232/485 with DB9 connectors, Automatic RS-485 data flow control UNO-1140F: 4 x isolated RS-232/485 with DB9 connectors, 4 x isolated RS-485 with screw terminal, Automatic RS-485 data flow control

RS-232 : 50~115.2 kbps

RS-485 : 50~115.2 kbps

CompactFlash®: 50 G @ wall mount, half sine, 11 ms

IEC 68 2-27

Serial Port Speed COM1~COM4

LAN

USB

- COM5~8 (UNO-1140F)
 - RS-485 : 300~921.6 kbps (max)
- Serial Port Protection 500V_{DC} Isolation Protection (UNO-1140F) 2000V_{DC} EFT Protection
 - 1 x 10/100 Base-T RJ-45 port
 - 2 x USB, USB 2.0 compliant

Reserved Functions

PC/104 Slot* PC/104 slot, space supports 2 cards, supports +5 V *Note: This function is reserved for projects

UNO-1100 series VESA mount kit

Ordering Information

- UNO-1140-V10E EVA SoC DIN-rail PC, 64MB RAM, 8 x Iso. COM
- UNO-1140F-V10E

Accessories

UNO-FPM11-BE PCLS-DIAGAW10

Self-service Terminals

- EVA SoC DIN-rail PC, 64MB RAM, 4 x COM
 - Advantech Remote Monitoring & Diagnosis Utility

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