# UNO-1140/F

# 486SX-grade SoC DIN-rail PCs with 1 x LAN, 8 x Isolated COM



#### **Features**

- Onboard Advantech EVA-X4150 SoC,486SX grade, 150 MHz processor
- 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 are DIN-rail mounted PCs which provide several serial communication ports and Ethernet interfaces. With their compact size, small footprint and front accessible I/Os, UNO-1140/F are convenient for wiring and DIN-rail installation in control cabinets. Their wide operating temperate range and industrial serial port design make UNO-1140/F excellent communication gateways even in critical environments. With OS and driver support on WinCE and Linux, users can integrate applications easily with application ready platforms that can provide versatile functions to fulfill diverse requirements.

### **Specifications**

#### General

Certifications
Dimensions (W x H x D) 71 x 152 x 139 mm (2.8" x 6" x 5.5")

Enclosure Aluminum + SECCMounting DIN-rail, Wallmount

Industrial Grounding Isolation between chassis and power ground

Power Consumption 10 W (Typical)

 $\hbox{\bf Power Requirement} \qquad 9 \sim 36 \ V_{DC} \ (e.g \ +24 \ V \ @ \ 1 \ A) \ (Min. \ 24 \ W), \ AT$ 

• Weight 1.0 k

OS Support
DOS (for UNO-1140 only), Windows CE 5.0, Linux
System Design
Fanless design with no internal cabling

Remote Management Built-in Advantech DiagAnywhere agent on Windows

CE

#### **System Hardware**

CPU Advantech EVA-X4150 SoC,486SX grade, 150MHz
Memory Onboard 64 MB Industrial grade SDRAM

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

(Tx, Rx)

Keyboard/Mouse 1 x PS/2

Storage CF: 1 x internal type I/II CompactFlash® slot
Display DB15 VGA connector, supports up to 1024 x 768 @ 60 Hz

• Watchdog Timer Programmable 256 level timer interval, from 1 to 255 sec

#### **Environment**

Ingress Protection IP40

Operating Temperature IEC 60068-2-2 (with 100% CPU/ I/O loading)

 $-20\sim75^{\circ}$  C (-4  $\sim167^{\circ}$  F)

• Operating Humidity 20 ~ 95% (non-condensing)

Shock Protection IEC 60068-2-27

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

• Vibration Protection IEC 60068-2-64 (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

Serial Port Speed

COM1~COM4 RS-232:50~115.2 kbps RS-485:50~115.2 kbps COM5~8 (UNO-1140F) RS-485:300~921.6 kbps (max) Serial Port Protection 500V<sub>nc</sub> Isolation Protection (UNO

 $500V_{\text{DC}}$  Isolation Protection (UNO-1140F)  $2000V_{\text{DC}}$  EFT Protection

LAN 1 x 10/100 Base-T RJ-45 port
USB 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

## **Ordering Information**

UNO-1140-V10E
UNO-1140F-V10E
EVA SoC DIN-rail PC, 64MB RAM, 4 x COM
EVA SoC DIN-rail PC, 64MB RAM, 8 x Iso. COM

#### Accessories

■ UNO-FPM11-BE UNO-1100 series VESA mount kit

PCLS-DIAGAW10 Advantech Remote Monitoring & Diagnosis Utility