

UNO-1019

Marvell® XScale® DIN-rail PC with
2 x LAN, 4 x COM, 2 x DI, 2 x DO



Features

- Marvell® XScale® PXA-255 200 MHz Processor
- 64 MB SDRAM on board, 32 MB Flash
- 2 x RS-232, 2 x RS-232/422/485 Serial Ports
- Dual 10/100 Mbps Ethernet
- 1 x CompactFlash® for DATA storage
- Windows® CE 5.0 Ready Platform and optional uClinux OS support
- Included Advantech DaigAnywhere for Easy Configuration
- DIN-rail and Wallmounting Options
- Onboard system & I/O LED indicators
- Supports Microsoft .NET compact framework 2.0 (WinCE 5.0 only)
- Fanless and no internal cabling design

Introduction

Advantech's UNO-1019 is a RISC-grade embedded platform that offers 2 LANs, 4 serial ports and 4 Digital Inputs/Outputs and a CompactFlash slot. UNO-1019 also comes with Windows CE 4.2/5.0 OS, offering a pre-built image onboard. Additionally, UNO-1019 operates under 0 ~ 70° C, and its small size and lightweight design allows it to be installed in tight industrial environments. UNO-1019 is an excellent communication gateway for converting communication protocols, I/O control, and data storage in the industrial field.

Specifications

General

- **Certifications** CE, FCC Class A
- **Dimensions (W x H x D)** 46 x 162 x 126 mm (1.8" x 6.4" x 5")
- **Enclosure** ABS+PC with solid mounting hardware
- **Mounting** DIN-rail, wallmount
- **Power Consumption** 8.5 W
- **Power Input** 10 ~ 30 V_{DC} (13 W), AT
- **Weight** 400 g

System Hardware

- **CPU** 32-bit Marvell XScale PXA255 200 MHz
- **Memory** Onboard 64 MB SDRAM
- **Indicators** Power, Serial (Tx, Rx), 3 x User Defined LEDs
- **Storage** Onboard 16 or 32 MB Flash Memory
SSD: 1 x external type I/II CompactFlash® slot
- **Other** Realtime clock, Watchdog timer

System Software

- **Operating System** WinCE 4.2 for UNO-1019ACE-A1E
WinCE 5.0 for UNO-1019ACE-A2E
- **Remote Management** Built-in Advantech DiagAnywhere agent on Windows CE

Communications

- **Serial Ports** 2 x RS-232, 2 x RS-232/422/485 with DB9 connectors, Automatic RS-485 data flow control
- **Serial Port Speed** RS-232: 300 ~ 115.2 kbps
RS-422/485: 300 ~ 115.2 kbps (Max)
- **LAN** 2 x 10/100 Base-T RJ-45 ports

Digital Input/Digital Output

- **Digital Inputs** 2 x Digital Inputs
Dry contact
Logic level 0: Open
Logic level 1: Close
Wet contact
Logic level 0: +3 V max
Logic level 1: +10 V_{DC} to 30 V_{DC}
- **Digital Outputs** 2 x Digital Outputs
Open Collect to 30 V
200 mA max Load, power dissipation 450 mW

Environment

- **Operating Temperature** 0 ~ 70° C (32 ~ 158° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- **Operating Humidity** 20 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)

Ordering Information

- **UNO-1019ACE-A1E** XScale DIN-rail PC w/ 16MB Flash Memory
- **UNO-1019ACE-A2E** XScale DIN-rail PC w/ 32MB Flash Memory
- **PCLS-DIAGAW10** Advantech Remote Monitoring & Diagnosis Utility