

ARK-3381

Seven Serial Port, Fanless, Embedded Box Computer



Features

- Seven serial port interfaces, 5 x RS-232/422/485 and 2 x RS-232
- Dual independent display capability
- Built-in Intel® Ultra Low Voltage Celeron® or Low Voltage Intel Pentium® M processor
- Sealed construction with fanless operation
- Anti-vibration to ensure maximum reliability
- Easy integration, easy maintenance, few parts, with wide range of power source

Introduction

The ARK-3381 fanless Embedded Box Computer combines seven serial port interfaces and other industrial features into a rugged, compact metal chassis for intensive communication based applications. The fanless operation provides noise protection for the platform to be deployed in external environments. The ARK-3381 Embedded Box Computer is ideally suited for embedded PC applications. All electronics are protected in a compact sealed housing for embedded and stand-alone applications, where space and environment are critical.

Series Port Intensive with Networking Capability

Multiple serial port interface: 5 x RS-232/422/485 series port and 2 x RS-232 series port enable communication with field level for measurement and operator control of diversified automation control.

Highly Robust Casting Construction

- Fanless operation in aluminum sealed construction
- A special cushioned design that absorbs vibration to ensure maximum reliability under harsh conditions

Highly Compact Size

- With its maximum mounting height of 69 mm, the ARK-3381 can be used under space critical installation conditions

Optimized Integration

- Few parts, easy integration and easy maintenance guarantee cost-effective investment
- Systems are supplied "Ready-to-Run"
- Long life cycle support for product continuity

Wide Range of Power Source

- Wide range of DC 12 V ~ 24 V power source offers flexibility of power input for various automation environments

High Computing Performance

Scalable Low Voltage and Ultra Low Voltage Pentium M class processor system with Ethernet networking capability for high computing performance

Specifications

Processor Core Logic System

- **CPU** Intel Ultra low voltage Celeron or Intel Pentium M low voltage processor
Celeron M 600 MHz (ARK-3381-1M0A1)
Pentium M 1.1 GHz (ARK-3381-1S1A1)
Pentium M 1.4 GHz (ARK-3381-1S4A1)
- **System Chipset** Intel 852GM GMCH or Intel 855GME chipset
Intel ICH4 chipset
400 MHz FSB
- **BIOS** 4 Mbit Flash BIOS, supports Plug & Play, APM 1.2
- **System Memory** One 200-pin SO-DIMM sockets
DDR 200-pin SO-DIMM x 1, Max. 1G

Display

- **Chipset** Integrated graphics with built-in Intel 852GM GMCH, or Intel 855GME GMCH, utilizing Intel extreme Graphics 2 technology
- **Display Memory** Dynamic video memory allocation up to 32 MB
- **Display Interface** CRT Interface
36-bit LVDS interface

Ethernet

- **Ethernet Controller** Intel 82551ER 10/100BaseT Ethernet Controller

Other

- **Watchdog Timer** 255 levels timer interval, setup by software
- **Keyboard/Mouse** Supports PS/2 mouse and PS/2 keyboard
- **USB** USB 2.0 compliant

Software Options

- Windows® XP Embedded, Windows 2000/XP

Storage

Supports drive bay space for 2.5" HDD
Supports CompactFlash socket for type I/II CompactFlash disk

