

ARK-3389

Intel® Pentium® M Fanless Embedded Box Computer



Introduction

The ARK-3389 fanless Embedded Box Computer is the ideal application ready system platform solution. All electronics are protected in a robust, compact sealed housing for embedding into a housing, or as a stand-alone application, where space is critical and the environment is harsh.

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-3389 can be used under space critical installation conditions

Highly Scalable Performance with Low Power Consumption

- Pentium M class processors bring high computing performance with low power consumption

Optimized Integration

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

Wide Range of Power Sources

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

ARK-BTOS Service

The ARK-3389 can be configured with the Advantech ARK-MIO Application Kit and Advantech certificated peripherals, in cooperation with the Advantech ARK-BTOS Service to suit diverse application fields.

ARK-DTOS Service

Distinctive customized system design and hardware expansions can be implemented project by project using Advantech ARK-DTOS service.

Features

- Built-in Ultra Low Voltage Intel® 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, and wide range of power source

Specifications

Processor Core Logic System

- **CPU** Intel uFCBGA 479-pin of Ultra Low Voltage Celeron or Intel Pentium M Low Voltage Processor
ULV Celeron M 600 MHz (ARK-3389-1M0A1)
LV Pentium M 1.1 GHz (ARK-3389-1S1A1)
LV Pentium M 1.4 GHz (ARK-3389-1S4A1)
- **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** 1 x 200-pin SODIMM sockets,
1 x DDR 200-pin SODIMM, Max. 1 G

Display

- **Chipset** Integrated graphics 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

