

EBPC-5250

Embedded Box PC Chassis for 5.25" Biscuit SBC

NEW



Features

- Built-in 180 W, ATX, AC-to-DC power supply
- Supports maximum expansion of three PC-104 or PC-104-Plus cards
- Supports maximum two PCI expansion slots
- Two dummy I/O metal plates for quick and convenient customized I/O extension
- Supports drive space of one slim optical CD/DVD device (Optional)
- Anti-vibration design of one 3.5" HDD bay
- Compact, robust, simple and modularized service-friendly design

Introduction

The EBPC-5250 series is a rugged, compact and advanced Embedded PC system chassis that is designed for 5.25" Biscuit Embedded SBCs. The EBPC-5250 series has a specially designed universal I/O board that can carry commonly used control and communication I/O ports from the motherboard's onboard pin headers to the chassis cutout. The EBPC-5250 series also has Universal Display I/O that supports a dual LVDS, one DVI, one S-Video and one composite video port. The EBPC-5250 series reserves space for two PCI Expansion slots, three PC-104 or PC-104-Plus interface cards. In addition, two dummy I/O plates allow easy customization of I/O-port cutouts by wiring the pin headers of PC-104, PC-104-Plus or PCI expansion cards to them. The EBPC-5250 series has a specially cushioned 3.5-inch hard disk drive bay that absorbs vibration to ensure maximum reliability under harsh conditions. The compact dimensions of the EBPC-5250 series make it easy to mount on walls in space-limited environments.

Universal, Comprehensive and flexible I/O expansion feature

- Built-in universal I/O features for all common control, communication and display I/O ports plus easy external access.
- Room to expand via I/O by PC-104, PC-104-Plus or PCI interface expansion cards.
- Dual dummy I/O plates allow customization of additional I/O ports

Compact, Robust Construction

- Robust, heavy-duty metal cast construction
- Modularized design offers maximum space efficiency and superior electromagnetic compatibility
- A specially cushioned design absorbs vibrations to protect the 3.5-inch HDD for maximum reliability

Optimized Integration

- Simple service-friendly design
- Quick installation, easy expansion and maintenance
- Long life cycle support for protect continuity to secure investment

Specifications

Chassis Construction

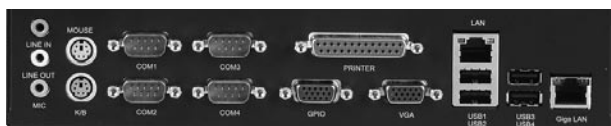
- **Construction** Rugged and Compact of Advanced Embedded Wall-Mountable PC system chassis
- **Material** SECC

Front External Access of Universal I/O ports

- **Audio Line_In** 1 x Front-access Line_In port by a 3.5 Ø audio jack connector
- **Audio Line_Out** 1 x Front-access Line_out port by a 3.5 Ø audio jack connector
- **Audio Mic_In** 1 x Front-access Mic_In port by a 3.5 Ø audio jack connector
- **PS/2** 1 x Front-access Mini DIN mouse connector
1 x Front-access Mini DIN keyboard connector
- **COM1~COM4** 4 x Front-access COM ports by 4* DB-9 male connectors as COM1~COM4
- **Printer** 1 x Front-access Printer port by a DB-25 female connector
- **GPIO** 1 x Front-access GPIO port by a DB-15 female connector
- **VGA** 1 x Front-access VGA port by a DB-15 female connector
- **FELAN** 1 x Front-access Fast Ethernet port by a RJ-45 connector
- **USB** 4 x Front-access USB ports by 2 pairs of double-stack of Mini DIN connectors
- **Giga LAN** 1 x Front-access Gigabit Ethernet port by a RJ-45 connector

External Access of Universal Display I/O

Front



Rear



Rear External Access of Universal Display I/O ports

- **LVDS1** 1 x Rear-access LVDS Port by DB-26 female Connector
- **LVDS2** 1 x Rear-access LVDS Port by DB-26 female Connector
- **DVI** 1 x Rear-access DVI Port by a DB-24 female connector

Note: The EBPC-5250L series models do not support Rear External Access of Universal Display I/O ports

System SBC board Support

- **Compatible SBC** Support and Compatible with Advantech 5.25-inch Biscuit Boards of PCM-9582F, PCM-9587F, PCM-9584F

Drive Bay

- **HDD Bay** 1 x 3.5-inch drive space
- **Optical Drive Bay** Optional support of one slim drive bay space
- **CF Socket** Optional support of 1 x CompactFlash Socket from system SBC board

Cooling System

- **System FAN** One 60 x 60 x 20 mm of DC brushless fan
- **Venting Hole** Venting holes located on front, left, and rear back for air flow convection

Power Supply

- **Output Rating** AC 180W, ATX
- **Input Voltage (Typical)** AC 100 ~ 240 V, 4-2 A, 50 ~ 60 Hz
- **Output Voltage** DC 3.3 V @ 16.8 A, DC 5 V @ 12.0 A, DC 12 V @ 10.0 A, DC 5 VSB @ 2.0 A, DC -12 V @ 0.8 A
- **Power Input Connector** Front access of 2-pole Phoenix type of DC power input connector
- **Power ON/OFF** One Power On/Off switch, ATX supported

Mechanical Specification

- **Mounting** Supports table mount and wallmount
Built-in wallmount kit included
- **System Indicator** 1*Power on LED (Green)
1*HDD LED (Red)
- **Weight** Net 2.5 kg
- **Dimension** 248 mm (Width) x 118 mm (Height) x 298 mm (Depth)

Environmental Specification

- **Operation Temperature** Temperature: 0° C ~ 45° C
- **Relative Humidity** Humidity: 0% ~ 95% (none-condensing)
- **Vibration Loading During Operation** When EBPC-5250 series advanced Embedded PC system chassis is equipped with Advantech 5.25" Biscuit SBC board: 1Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./mm, 1hr/axis.
- **Shock During Operation** When EBPC-5250 series advanced Embedded PC system chassis is equipped with Advantech 5.25" Biscuit SBC board: 20 G, IEC 60068-2-27
- **EMC Certification** Design to meet CE/FCC Class A
- **EMS Certification** Design to meet UL Certification

Ordering Information

- **EBPC-5250-82CE** EBPC, chassis kit for PCM-9582F and PCM-9387F
- **EBPC-5250L-82CE** EBPC chassis kit, EBPC-5250-82CE without Universal Display I/O ports
- **EBPC-5250-82SE** EBPC-5250-82CE assembly with PCM-9582F-00A1E SBC
- **EBPC-5250-84CE** EBPC, chassis kit for PCM-9584
- **EBPC-5250L-84CE** EBPC chassis kit, EBPC-5250-84CE without Universal Display I/O ports
- **EBPC-5250-84SE** EBPC-5250-84CE assembly with PCM-9584FG-00A1E SBC

Note: The EBPC-5250L series models do not support Rear External Access of Universal Display I/O ports

Optional Items

CompactFlash Disk

- **96FMCFI-1G-IT-HA** HAGIWARA 1 GB Industrial Grade CompactFlash Disk
- **96FMCFI-1G-ET-TR** Transcend 1 GB Industrial Grade CompactFlash Disk
- **96FMCFI-1G-IT-SS** SILICON 1 GB Industrial Grade CompactFlash Disk
- **96FMCFI-2G-IT-SS** SILICON 2 GB Industrial Grade CompactFlash Disk
- **96FMCFI-2G-ET-TR** Transcend 2 GB Industrial Grade CompactFlash Disk
- **96FMCFI-4G-ET-TR** Transcend 4 GB Industrial Grade CompactFlash Disk

CPU

- **96MPCM-1.3F4-5K4T** Intel uFCPGA478 CPU Celeron M 1.3 GHz / 512KB RH80536GC0332M
- **96MPPM-1.6F4-1M4T** Intel uFCPGA478 CPU Pentium M 1.6 GHz / 1MB RH80535GC0251M
- **96MPPM-1.8F4-2M4T** Intel uFCPGA478 CPU Pentium M 1.8 GHz / 2MB RH80536GC0332M

DDR SODIMM SDRAM

- **96SD-256M266NN-TR** TRANSCEND 200-Pin DDR266 256MB (G)
- **9680000994** TRANSCEND 512 MB DDR333 SODIMM 64MB x 64MB 200-pin
- **96SD-1G333NN-TR** TRANSCEND 200-pin SODIMM SDRAM DDR333 1 GB
- **96SD-1G400NN-TR** TRANSCEND 200-pin SODIMM SDRAM DDR400 1 GB

DDR2 SODIMM SDRAM

- **96SD2-512M533NN-TR** TRANSCEND 200-pin DDR2-533 512 MB
- **96SD2-1G533NN-TR** TRANSCEND 200-pin DDR2-533 1 GB

2.5-inch IDE Hard Disk Drive

- **96ND40G-I-SG5K1** Seagate 40 GB IDE 2.5" HDD, 5400 RPM, ST94813A
- **96ND60G-I-SG5K** Seagate 60 GB IDE 2.5" HDD, 5400 RPM, ST96812A
- **96ND80G-I-SG5K1** Seagate 80 GB IDE 2.5" HDD 5400 RPM, ST980815A

3.5-inch IDE Hard Disk Drive

- **96HD80G-I-WD7K1** Western Digital Hard drive 80 GB 3.5" IDE 7200RPM
- **96HD120G-I-WD7K** Western Digital Hard drive 120 GB 3.5" IDE 7200RPM

Dimensions

Unit: mm

