
Datasheet

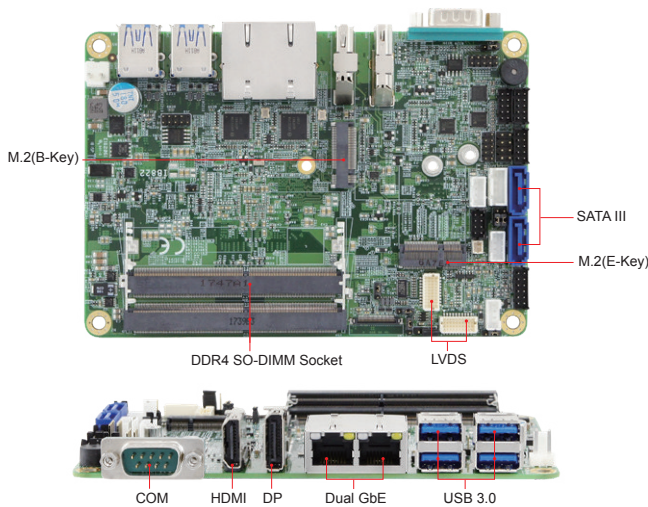
iBASE

IB822

3,5" Single-Board Computer with Intel® Atom™

Gemini Lake Processor Pentium® J5005 and Celeron® J4005

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Features

- Onboard Pentium® Silver / Celeron® SoC
- 2x DDR4-2400 SO-DIMM sockets, Max, 8GB
- Supports HDMI(2.0a), DisplayPort and eDP or 18/24-bit dual-channel LVDS
- 2x Intel® 210AT PCI-E Gigabit LAN
- 2x M.2 sockets (B/ E key)
- Digital I/O, iSMART, Watchdog timer

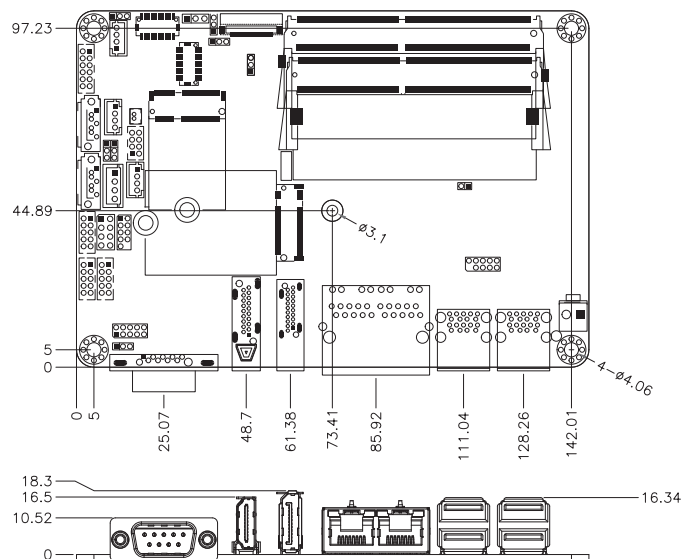
Specifications

CPU Socket	Intel® Pentium® Silver/ Celeron® SoC
System Memory	2x DDR4-2400 SO-DIMM sockets, Max, 8GB
System Chipset	Integrated in Intel® SoC
BIOS	AMI
Watchdog Timer	256 levels
SSD	N/A
H/W Monitor	Yes
Expansion Slot	1x M.2 (B-key, type: 2230) 1x M.2 (E-key, type: 2230)
VGA Controller	Intel® UHD Graphics 605
VGA Memory	Shared memory
Display Interface	Supports HDMI(2.0a), DisplayPort and eDP or 18/24-bit dual-channel LVDS
LAN Controller	2x Intel® 210AT PCI-E Gigabit LAN
LAN Connector	2x RJ-45 connectors
I/O Chipset	Fintek F81964D-I 3x RS232 1x RS232/422/485 (jumperless selection)
USB	4x USB 3.0 (5Gb/s) 2x USB 2.0
Serial ATA	2x SATA III
Audio	Intel® Pentium® / Celeron® SoC built-in HD Audio controller + Realtek ALC233-VB2-CG Codec w/ class-D speaker amplifier
Others	iSMART 3.5, Digital I/O, 12V~24V (DC-in)
Dimensions	102mm x 147mm
Max. Power Requirement	Intel® Celeron® J4005 2.0GHz w/ 2x 8GB DDR4-2133 +12V: 1.58A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	90% (non-condensing @60°C)

Ordering Information

IB822F-J5005	Intel® Pentium® Silver J5005 (1.5GHz~2.8GHz) 3.5-inch Disk-Size SBC w/ dual GbE LAN, HDMI(2.0a), DisplayPort, & eDP or 18/24-bit dual-channel LVDS), 2x M.2, 12V~24V DC-in
IB822-J4005	Intel® Celeron® J4005 DC SoC (2.0GHz/2.7GHz), 3.5-inch Disk-Size SBC w/ Dual GbE LAN, HDMI(2.0a), DisplayPort, eDP or LVDS(24-bit /Dual-channel) 2x M.2, 12V~24V DC-in

Dimensions and Drawing



1 Embedded Systems

2 CPU Modules

3 Disk-Size SBCs

4 Motherboards

5 CPU Cards

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