



Features

- Supports Intel® Celeron® 1020E or 3rd Generation Intel® Core™ i processors
- 2x DDR3 SO-DIMM, Max 16GB
- Onboard dual Gigabit LAN
- Optional 2MB battery backup NVRAM (SRAM)
- 2x expansion slots
- Dual DVI-I display outputs

Specifications

CPU	Intel® Celeron® 1020E / 3rd Generation Processors (2.2Ghz with 2MB cache)
System Chipset	Intel® HM76 PCH
System Memory	4GB DDR3 SO-DIMM (Max. up to 16GB)
BIOS	AMI
Expansion Slots	ABP-IP701: 1x PCI-E(x16) + 1x PCI-E(x4) ABP-IP702: 1x PCI + 1x PCI-E(x16) ABP-IP703: 2x PCI
Storage	2.5" SATA HDD or SSD
H/W Monitor	Yes
VGA Controller	3rd Generation Intel® Core™ i7/i5/i3 integrated Gen 5.75 graphics
VGA Memory	Max. shared Memory – 1024MB
Display Interface	2x DVI-I
LAN Controller	Intel® 82579V Gigabit LAN PHY + Realtek 8111E PCI-E Gigabit LAN
SRAM	Onboard 2MB battery backup SRAM (optional)
Multi I/O Chipset	Fintek F81866AD-I, 2x RS232, 2x SATA III
USB	Intel® HM76 PCH built-in 6x USB 2.0 and 4x USB 3.0
Audio	Intel® HM76 built-in HD audio with Realtek ALC662 codec
Others	POST codes via two 7-segment display, Watchdog timer
I/O Interface	2x RJ45 (Gigabit Ethernet) 2x RS-232 (D-sub) 2x DVI-I (supports Analog + Digital) 4x USB 2.0 4x USB 3.0 1x Line Out 1x DC input (3-pin phoenix connector with locking) 1x Power On/Off switch
Operating Systems	Windows XP Pro / Windows XP Embedded / Windows 7 / Windows Embedded Standard

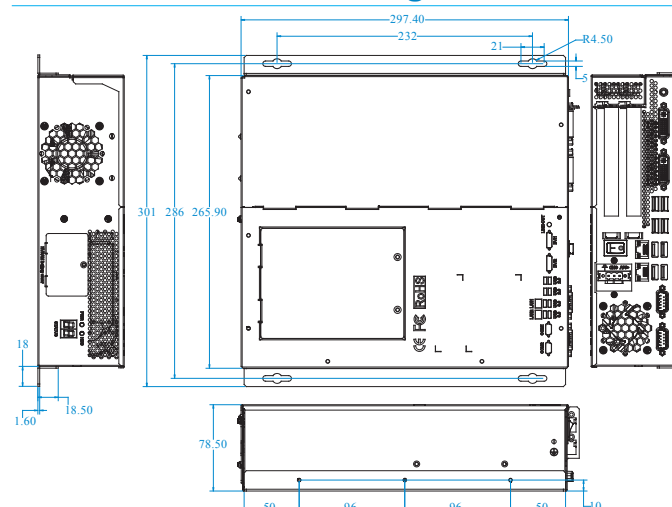
Mechanical and Environmental

Dimensions	297.4mm(W) x 266.2mm(D) x 78.5mm(H) 11.71"(W) x 10.48"(D) x 3.09"(H)
Input Voltage	Direct 24V DC +/- 15% with reverse voltage protection
Max. Power Requirement	Intel® Celeron® 1020e 2.2Ghz, 2GB DDR3 SO-DIMM, 2.5" 500GB SATA HDD: 150W
MTBF	Motherboard MTBF: 286,182 hours
Operating Temperature	0°C~55°C (32°F~131°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)
Vibrations	Operating: 10~58Hz: 0.075 mm, 58~500 Hz: 9.8 m/s ² Non-Operating: 5~9Hz: 3.5 mm, 9~500 Hz: 9.8 m/s ²
Shock	Accordance with IEC 60068-2-27 Operating: 50m/s ² , 30ms Non-Operating: 250 m/s ² , 6ms
Certification	CE/FCC Class B, LVDS

Ordering Information

AMS200	Box PC Controller with Intel® Celeron® 1020E 2.2Ghz CPU with 4GB DDR3 SO-DIMM, 2.5" 500GB SATA HDD and 1x PCI + 1x PCI-E(x16) expansion slots
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Dimensions and Drawing



Why AMS200?

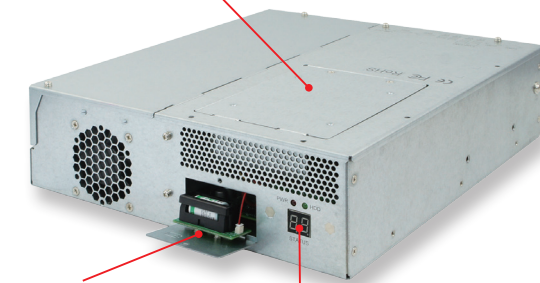
Electrical

- Supports 3rd Generation Intel® Core™ i7/i5/i3/ Celeron® Processors
- Up to 16GB DDR3 memory
- 2x Gigabit LAN, 2x RS-232, 2x DVI-I, 4x USB 2.0, 4x USB 3.0, 1x Mini PCI-E, 2x SATA III
- Direct 24V DC input voltage (+/- 15%)
- 2MB NVRAM backup

Mechanical & Environmental

- Motherboard MTBF of >200,000 hours (Based on Telcordia Issue 2 calculation model)
- Vibrations -
Operating:
10~58Hz: 0.075 mm, 58~500 Hz: 9.8 m/s²
Non-Operating: 5~9Hz: 3.5 mm, 9~500 Hz: 9.8 m/s²
- Shock
In accordance with IEC 60068-2-27
Operating: 50m/s², 30ms
Non-Operating: 250 m/s², 6ms
- Operating Temperature: 0°C ~ 55°C
- Certification: CE/FCC Class B

2.5" Removable HDD/SSD Housing with Shock Absorber

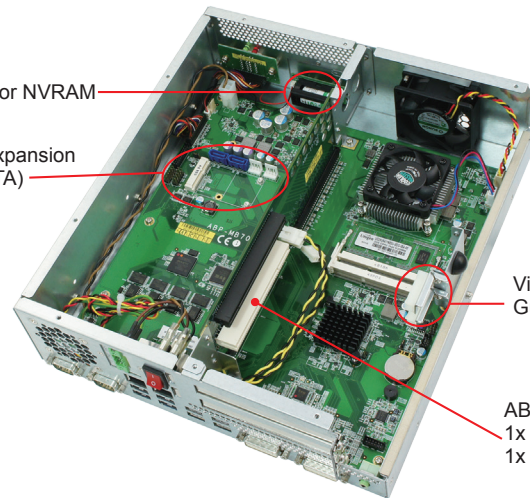


NVRAM Battery Compartment

BIOS POST Code

Battery for NVRAM

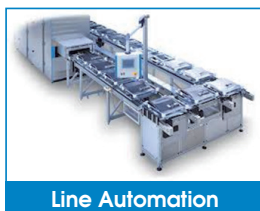
Mini PCI-E Expansion (USB + mSATA)



Vibration Damper / Guide for Riser Card

ABP-IP702 Riser Card:
1x PCI-E(x16)
1x PCI

Applications for AMS200



Line Automation



Highway Toll Controller



Placement System



Laser Marking Machine



Vision Inspection Machine



Chip Bonder Machine