

ASB-M7102

Mini-ITX

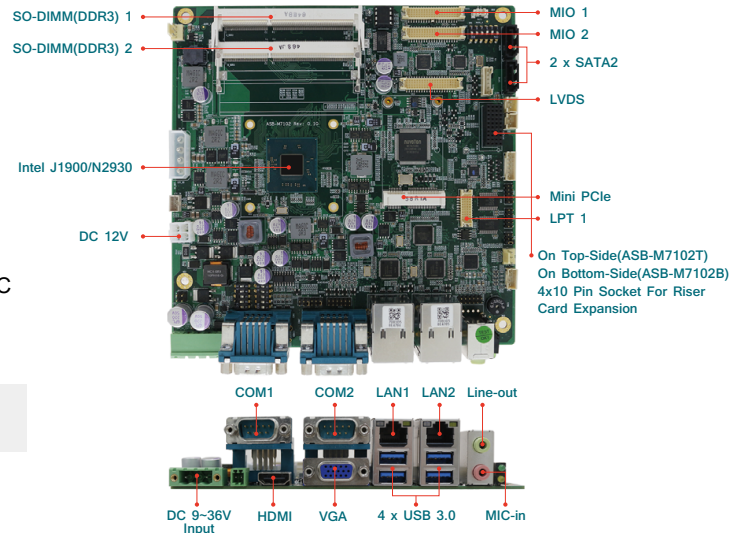
Mini-ITX, Onboard Intel Celeron J1900 (2GHz)/N2930(1.83GHz) Processor, 2 x DDR3 SO-DIMM, LVDS/VGA/HDMI

Features

- Intel Celeron J1900(2.0GHz) / N2930(1.83GHz) Processor
- 2 x 204-Pin SO-DIMM up to 8GB DDR3 1333MHz
- 1 x 18/24-bit Single/Dual Channel LVDS
- ADotec Designed 40-Pin Socket PCIe Expansion Interface
- Wide Operating Temperature Support with -20°C~70°C
- Wide Range DC 9~36V and Single DC 12V Input

Packing List

- 1 x ASB-M7102 Industrial Motherboard
- 1 x CR2477 Battery



Specifications

System

Form Factor	Mini-ITX
Processor	Onboard Intel Celeron J1900 Processor (2M Cache, 2.00 GHz) Onboard Intel Celeron N2930 Processor (2M Cache, 1.83 GHz)
System Chipset	SoC
System Memory	Support 2 x 204-Pin SO-DIMM up to 8GB DDR3 1333MHz
BIOS	AMI/UEFI BIOS

Display

Controller	Intel HD Graphics 688/854 MHz (J1900) Intel HD Graphics 313/854 MHz (N2930)
VGA Interface	1 x VGA, 1 x CRT 2 x 6-Pin header
TTL/LVDS Interface	1 x 18/24-bit Single/Dual Channel LVDS Select by DIP-SWITCH (ASB-M7012T Only)
HDMI Interface	1 x HDMI
Resolution	Up to 1920 x 1200 for VGA Up to 1920 x 1200 for HDMI Up to 1920 x 1200 for 24-bit single/dual channel LVDS

Mechanical & Environment

Board Size (L x M)	170 mm x 170 mm
Gross Weight	0.5 kg
Operating Temperature	-20°C~70°C (-4°F~158°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Humidity	10%~90%, non-condensing, operating
Certificate	Meet RoHS 2.0/CE/FCC Class A

Expansion

Expansion	4 x 10-Pin Socket For Apex Riser Card Expansion 1 x mini PCIe slot
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Power Management

Power Input	Wide range DC 9~36V input / DC 12V input (option)
Power Connector	1 x 3-Pin power input connector / 2 x 2-Pin connector

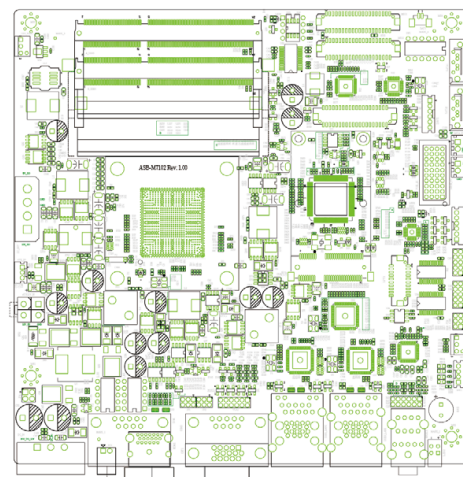
Ordering Information

ASB-M7102T	Mini-ITX, Intel Celeron J1900/N2930, 2 x SO-DIMM DDR3, VGA/HDMI/LVDS, 4 x10-Pin Expansion Socket (On Top-Side)
ASB-M7102B	Mini-ITX, Intel Celeron J1900/N2930, 2 x SO-DIMM DDR3, VGA/HDMI, 4 x 10 Expansion Socket (On Bottom-Side)

I/O

Super I/O	Fintek F81216AD
Ethernet	2 x GbE LAN ports by RJ-45 with Intel 82574L Controller
USB	4 x USB 2.0 external stack ports 1 x USB 2.0 Pin header via MIO2 3 x USB 2.0 Pin header via MIO1 1 x USB 2.0 internal for mini PCIe
Serial	1 x RS-232/RS-422/RS-485 (COM1), DB-9 Connector on I/O, Pin 9 with 5V/12V Ring select 1 x RS-232 (COM2), DB-9 Connector on I/O, Pin 9 with 5V/12V Ring Select 1 x RS-422/485 (COM3) header via MIO1 1 x RS-232/RS-422/RS-485 (COM4) header via MIO1 2 x RS-232 (COM5, COM6) internal header via MIO1
GPIO	8-bit digital I/O by header (4 x DI, 4 x DO) via MIO2
Storage	2 x SATA2 connectors
Audio	Support Audio via Realtek ALC269-X HD audio codec 2 x Stack Audio Jack, Line-out/ Mic-in 2 x 2W speaker out via 1 x 4-Pin header Line-in, Line-out, MIC by 2 x 6-Pin header
Keyboard /Mouse	2 x PS/2 via MIO2
CMOS Battery	1 x 2-Pin header support CR2477 (1000mAH)
LPT	LPT support by pin header

Dimension



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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