



Features

- Intel® Celeron® Processor 1037U (2M Cache, 1.80 GHz) Upgradable with Celeron® Level Processor
- One 204-pin DDR3 SODIMM Sockets Support Up to 8GB 1333MHz SDRAM
- 1 x Realtek Gigabit Ethernet
- HDMI, VGA, LVDS
- 1 SATA III, 1 SATA II, 1 Mini PCI-e, 6 USB 2.0, 2 x RS-232 (Pin9 Without Power), 8-bit GPIO, 1 CIR
- Optional Nvidia GF119 Graphics
- DC-in +19V

Specifications

System

• CPU	Intel® Celeron® Processor 1037U (2M Cache, 1.80 GHz) Upgradable with Celeron® Level Processor
• BIOS	AMI uEFI BIOS, 64Mbit SPI Flash ROM
• System Chipset	Intel® NM70 Express Chipset
• I/O Chip	NuvoTon NCT6106D
• System Memory	1 x 204-pin DDR3 SODIMM Sockets Support Up to 8GB 1333MHz SDRAM
• Watchdog Timer	H/W Reset, 1sec. ~ 65535sec./min. and 1sec. or 1min./step
• H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
• Buzzer	Buzzer Onboard
• Expansion	1 x Mini PCI-e (Mini PCI-e and mSATA SSD is Switchable Through Jumper)

I/O

• MIO	1 SATA III, 1 SATA II, 2 SATA Power, 1 CIR
• Serial Port	2 x RS-232 without Voltage
• USB	6 USB 2.0
• DIO	8-bit General Purpose I/O for 4-bit DI and 4-bit DO

Display

• Chipset	Intel® NM70 Integrated
• Resolution	HDMI: 1920 x 1200 VGA: 2048 x 1536
• Multi Display	With GPU: VGA + HDMI + LVDS (By Windows Display Setting) Without GPU: VGA + LVDS; HDMI + LVDS
• LVDS	Dual-channel 24-bit LVDS 1920 x 1200
• Display Chip	Nvidia GF119 Graphics with 512MB Memory (Optional)

Audio

• Chipset	Realtek ALC661 HD Audio Decoding Controller
• Audio Interface	Line-out, Mic-in
• Audio Amplifier	Realtek ALC105 Stereo Class-D 3W x 2

Ethernet

• Chipset	1 x Realtek RTL8111E PCI-Express Gigabit Ethernet
• Ethernet Interface	10/ 100/ 1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environmental

• Power Requirement	DC-in +19V
• Power Type	ATX Mode
• Operating Temperature	0 ~ 60°C (32 ~ 140°F)
• Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
• Operating Humidity	0 ~ 90% Relative Humidity, Non-condensing
• Size (L x W)	6.69" x 6.69" (170mm x 170mm)
• Weight	0.88lbs (0.4Kg)

Ordering Information

• EMX-NM70-A1-GPUR

Intel® Celeron® Processor 1037U Mini ITX Motherboard with Intel® NM70 Express Chipset and GF119 Graphics and VGA, HDMI, LVDS, Line-out, Mic-in, 1 GbE, 1 Mini PCI-e, 1 SATAIII, 1 SATAII, 2 RS-232, 6 USB 2.0, 1 CIR, 3W x 2 Amplifier, 8-bit GPIO, +19V DC-in, w/SATA Cable, I/O Shield, CD Driver

• EMX-NM70-A1R

Intel® Celeron® Processor 1037U Mini ITX Motherboard with Intel® NM70 Express Chipset and VGA, HDMI, LVDS, Line-out, Mic-in, 1 GbE, 1 Mini PCI-e, 1 SATAIII, 1 SATAII, 2 RS-232, 6 USB 2.0, 1 CIR, 3W x 2 Amplifier, 8-bit GPIO, +19V DC-in, w/SATA Cable, I/O Shield, CD Driver

* The PCH NM70 and CPU and GPU are not Embedded supported