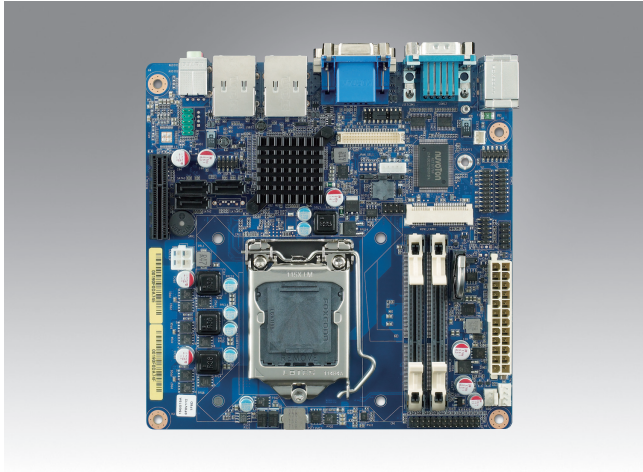


GMB-H61

Intel® H61 Mini-ITX Motherboard



Features

- Supports Intel® Celeron Desktop CPU-G540 with H61 Express Chipset
- Intel® LGA 1155 Socket support.
- Two 204-pin SODIMM sockets support up to 16GB DDR3 1333/1066 SDRAM
- Intel® HD Graphic support DirectX 10.1 and Open GL 3.0
- Multiple display I/O supports versatile Dual display functions: VGA, LVDS, DVI
- Realtek ALC892 support 5.1Channel HD Audio
- 1 PCI-E x4 Gen.2, 1 Mini PCI-E
- 8 USB 2.0 , 6 COM, 3 SATAII, Dual LAN



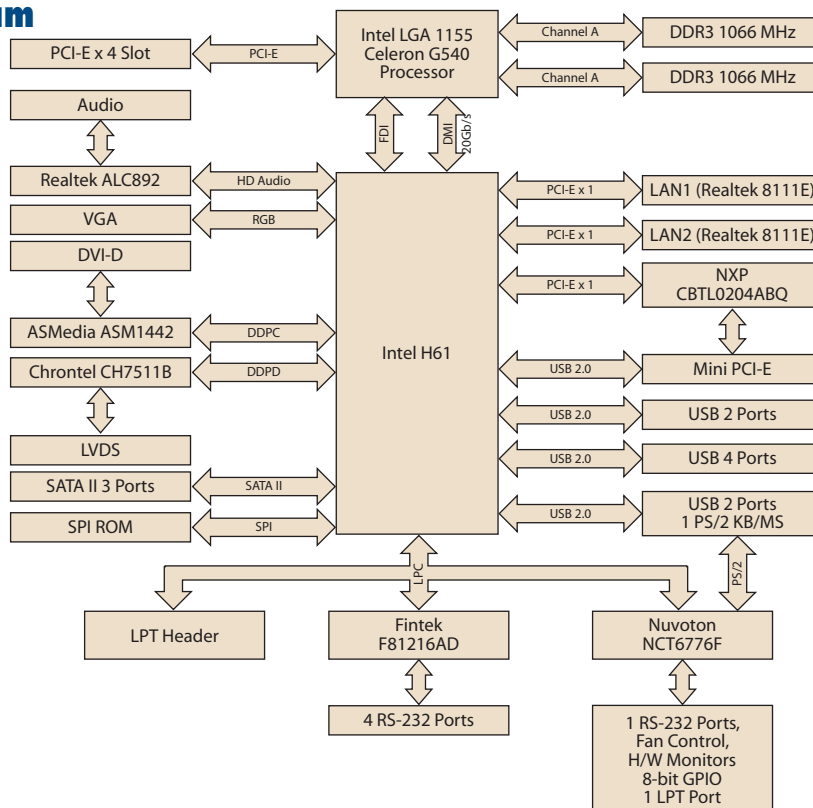
Introduction

The GMB-H61 is a Intel® embedded platform. With Mini-ITX form factor, GMB-H61 supports dual displays for flexible output combinations. It also reserved one Mini PCIe slot and one PCIe x4 slot to provide for flexible applications. A full feature set of I/O and COMs (8x USB 2.0, 6x COM port, dual LAN, 3 SATA II) makes an ideal replacement for your existing solution.

Specifications

Processor System	APU	Intel® Celeron G540 Processor				
	Core Number	2				
	Max .Speed	2.5 GHz				
	L3 Cache	2 MB				
	Power Consumption	65 W				
	Package	LGA 1155				
	Fusion Controller Hub	Intel H61				
System Memory	Technology	DDR3 1066 (non-ECC support)				
	Socket	2x SODIMM 204 pin/single channel				
	Max. Capacity	16 GB				
Expansion Slot	PCIe x4 Slot (Gen2)	1 slot				
	Mini PCI –E	1 slot				
Integrated 2D/3D Display	Integrated Graphic Controller	Intel® HD Graphics				
	Dual Display	VGA+LVDS, VGA+DVI, LVDS+DVI				
	VGA	Onboard, supports up to 2048 x 1536 (@ 75 Hz)				
	DVI	Onboard, DVI-D , supports up to 1920 x 1200				
	LVDS	Onboard, 24-bit LVDS, supports up to 1920 x 1200				
	LVDS Backlight	Yes, through internal LVDS Backlight Connector				
I/O	MIO	4COM RS-232 (Internal) , 2 COM RS-232(Rear) , 3 SATA II, 1 DVI, 1 VGA ,1 LVDS, 1 LVDS Backlight, 1PS/2 Keyboard & Mouse				
	USB	8 USB 2.0 (6Rear, 2 Internal)				
	GPIO	8-bit General Purpose I/O for 4-bit DI and 4-bit DO				
Gigabit Ethernet	LAN1	Realtek RTL8111E Gigabit Ethernet				
	LAN2	Realtek RTL8111E Gigabit Ethernet				
BIOS	BIOS	AMI EFI 32Mb SPI ROM				
Audio	Audio Codec	Realtek ACL892, 5.1 Channel HD Audio				
	Audio Interface	Line-out, Mic-In, Front Audio Header				
Other Functions	Super I/O Chipset	Nuvoton NCT6776F				
	H/W Status Monitor	Monitoring temperature, voltage and cooling fan status, Auto throttling control when CPU overheats				
	Power state	S1, S3, S4, S5				
	Watchdog Timer	Reset: 1-255 sec/min per step				
	Wake up on LAN or Ring	LAN (WOL, PXE)				
Power	Power Type	ATX (support AT mode)				
	Power Requirement	+3.3 V	+5 V	+12 V	-12 V	5 VSB
		4.5 A	10 A	21 A	0.3 A	2 A
	Power Connector	1 24-pin ATX Power Connector 1 4-pin ATX 12V Power Connector				
Environment	Dimension	170 x 170 mm (6.69" x 6.69")				
	Operating Temperature	0 ~ 60° C (32 ~ 140° F)				
	Operating Humidity	0% to 90% relative humidity, non-condensing				
	Weight	0.88 lbs (0.4 Kg)				

Block Diagram



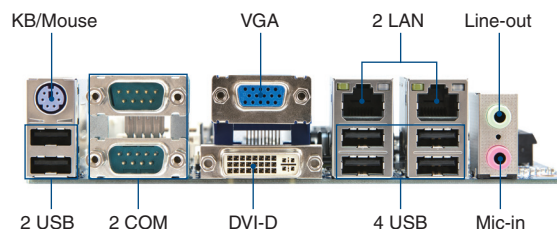
I/O

Rear I/O

- 1 PS/2 Keyboard/Mouse Port + 2 USB 2.0 Ports
- 2 COM RS-232 Ports
- 1 VGA Port
- 1 DVI Port
- 4 USB 2.0 Ports
- 2 LAN RJ45 Ports
- 1 Audio I/O (2 Jacks)

Internal I/O Connectors

- 1 USB Connectors support 2 USB Ports
- 4 COM RS-232 Connectors
- 3 SATA Connectors
- 1 Front Audio Connector
- 1 Front Panel Connector
- 1 CPU Fan Connector
- 1 System Fan Connector
- 1 Mini PCIe Connector
- 1 LPT Connector
- 1 LVDS Connector
- 1 LVDS Backlight Power Connector
- 1 PCIe x4 Connector



Design & Manufacturing Services

ODM products are designed for customers with consistent order and specific design requirements. ODM products are subject to minimum annual order quantities and engineering charges. Evaluation units are available without such restrictions. Advantech has a dedicated project team to serve ODM customers.

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