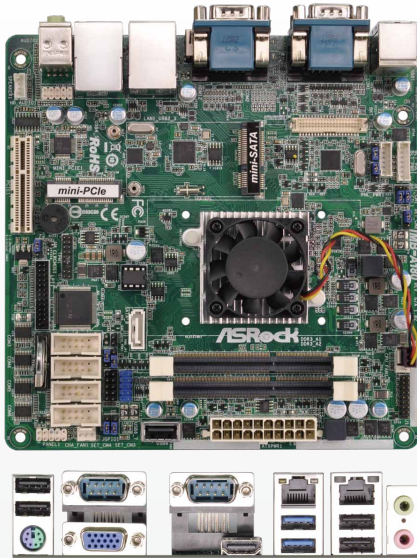




IMB-A180

Mini-ITX Motherboard

Spotlight Features

- AMD Embedded G-Series SOC processor(s)
- Supports DDR31600MHz (GX-420CA/GX-415GA), DDR3 1333MHz (GX-210HA)
- 1 x VGA, 1 x HDMI
- 24 bit dual channel LVDS
- 6 x COM ports, 6 x USB 2.0, 2 x USB 3.0
- 1 x PCIe4, 1x SATA 3.0, 1 x mSATA
- Dual Gbe LAN: 1 x Realtek RTL8111E, 1 x Realtek RTL8111DP to support Dash Function
- 1 x TPM header

Specifications

Processor System	
Dimension	Mini-ITX (6.7-in x 6.7-in)
CPU	AMD-- Embedded G-Series SOC processor(s) GX-420CA: 25W 4Core (2.0G Hz) GX-415GA: 15W 4Core (1.5G Hz) GX-210HA: 9W 2Core (1.0G Hz)
Core Number	by SOC
Max Speed	by SOC
L3 Cache	by SOC
Chipset	SOC
BIOS	UEFI
Expansion Slot	
PCI	NA
Mini-PCIe	1 (half size)
mSATA	1
PCIe	1 (x4) Gen2
CFast Card Socket	no
Memory	
Technology	Single Channel Up to DDR3 1600 MHz (GX-420CA / GX-415GA) Single Channel Up to DDR3 1333MHz (GX-210HA)
Max.	16 GB
Socket	2 x So-DIMM
Graphics	
Controller	by SOC
VRAM	Shared Memory
VGA	1
LVDS	24-bit dual channel LVDS
HDMI	1
DVI	No
Display Port	No
Multi Display	YES (Dual display)
Ethernet	
Interface	10/100/1000 Mbps
Controller	1 x Realtek RTL8111E, 1 x Realtek RTL8111DP to support Dash Function
Connector	2 x RJ-45
SATA	
Max Data Transfer Rate	SATA3 (6.0Gb/S)

Rear I/O	
VGA	1
HDMI	1
DVI-I/D	0
Display Port	0
Ethernet	2
USB	6 (4 x USB 2.0 compliant; 2 x USB 3.0 compliant)
Audio	2 (Mic-in, Line-out)
Serial	2 (RS232/422/485)
PS/2	1 (Combo)

Internal Connector	
USB	2 x USB2.0 port (by Header), 1 x USB Type A Con
LVDS/Inverter	YES (option)
VGA	0
Serial	4 x RS232 and 4x (1x3) Header to offer PWR select for 2 rear and 2 internal
SATA	1 x SATA3, 1 x m-SATA
m-SATA	1
Mini-PCIe	1 (half size)
Parallel	1
IrDA	0
GPIO	4 x GPI + 4 x GPO
SATA PWR Output Con	0
Speaker Header	1

Watchdog Timer	
Output	Output from super I/O to drag RESETCON#
Interval	256 Segments, 0,1,2....255 Sec/Min

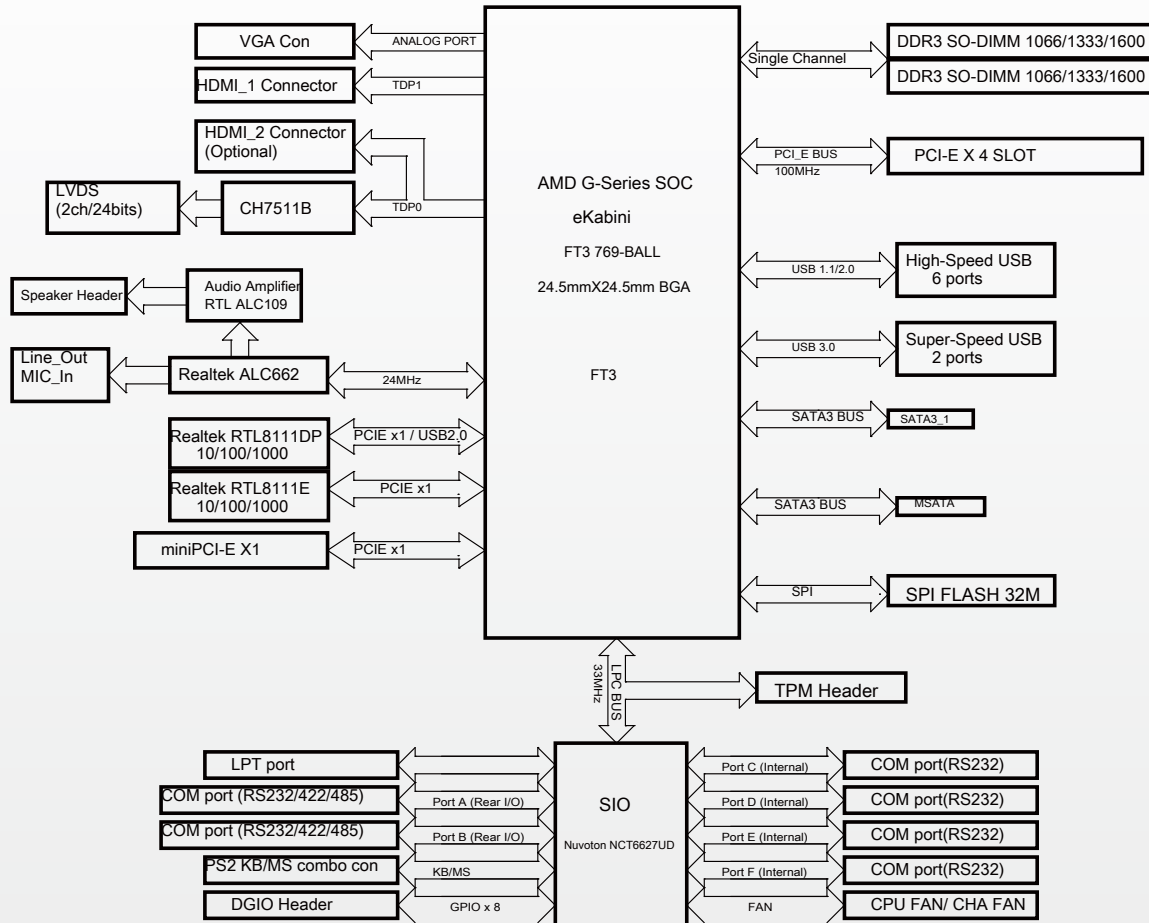
Power Requirements	
Input PWR	20-pin ATX PWR con
Power On	AT/ATX Supported AT : Directly PWR on as power input ready ATX : Press button to PWR on after power input ready

Environment	
Operating Temperature	0°C – 60°C

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

Board Diagram

IBM-A180



IPC Motherboards Focused Markets

ASRock IMB solutions can be widely used for industrial applications, such as process control, data acquisition, and so on. IMB-PCs are typically panel mounted and often incorporate touch screens for user interaction.



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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