



IMB-A182

Mini-ITX Motherboard

Spotlight Features

- AMD Embedded G-Series SOC processor(s)
- Support DDR3 1600MHz
- 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)
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
SIM	no

Memory

Technology	Single Channel Up to DDR3 1600 MHz
Max.	16 GB
Socket	2 x So-DIMM

Graphics

Controller	by SOC
VRAM	Shared memory
VGA	1
LVDS	supports 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- 1x 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)
e-SATA	0
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	4xRS232 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	12V~24V DC-In (4-pin ATX PWR Con)/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
-----------------------	------------

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.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660