ASRock ®
Industrial

SOM-QA101

Spotlight Features

· AMD Embedded G-Series SOC processor
· Supports DDR3L 1333, up to 8GB
· 1 x HDMI , 1 x DP , 1 x LVDS (By Carrier Board)
· 1 x USB 3.0, 5 x USB2.0 , 2 x SATA3 (By Carrier Board)
· 3 x PCIe x1 slot (By Carrier Board)
· 1 x Mini-PCIe (By Carrier Board)
· 1 x mSATA (By Carrier Board)
· 2 x Intel LAN (By Carrier Board)
· 12~24V DC-in (By Carrier Board)

Specifications

Processor System

Dimensions	Qseven (2.8-in x 2.8-in)
CPU	GX-412HC, QC, 1.2GHz, 7W
Chipset	By CPU

Expansion Slot

PCIe	3 x PCIex1 (By Carrier Board)
Mini-PCIe	1 x full/ half size (By Carrier Board)
M.2	N/A
mSATA	1 x full size (By Carrier Board)

Memory

Technology	DDR3L 1333MHz
Max.	8GB
Socket	No

Graphics

Controller	Integraded AMD Radeon™ R3E Graphics
VGA	N/A
LVDS	Supports max resolution up to 1920 x 1200@60Hz
eDP	N/A
HDMI	Supports max resolution up to 4096 x 2160@24Hz
DVI	N/A
DisplayPort	Supports max resolution up to 4096 x 2160@60Hz
Multi Display	Dual Display

Ethernet

Interface	10/100/1000 Mbps
Controller	1 x Intel® I211 (By Carrier Board)

Rear I/O

VGA	N/A
DVI	N/A
HDMI	1 (By Carrier Board)
DisplayPort	1 (By Carrier Board)
Ethernet	1 (By Carrier Board)
USB	1 x USB3.0 , 5 x USB2.0 (By Carrier Board)
Audio Jack	2 (By Carrier Board)
Serial	2 x RS-232 (By Carrier Board)
PS/2	1 (By Carrier Board)

Internal Connector

USB	N/A
LVDS	1 (By Carrier Board)
eDP	N/A
VGA	N/A
Serial	N/A
SATA	2 x SATA3 (By Carrier Board)
Parallel	N/A
GPIO	4 x GPI + 4 x GPO (By Carrier Board)
SATA PWR Output Con	1 (By Carrier Board)
Speaker Header	N/A
TPM	N/A

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 segments, 0,1,2...255sec/min

Power Requirements

Input PWR	By Carrier Board
Power On	By Carrier Board

Environment

Operating Temperature	0ºC – 60ºC
Storage Temperature	-40ºC – 85° C

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