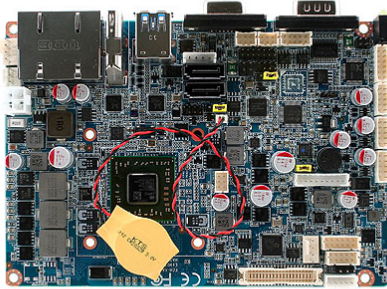




ECM-KA

AMD G-Series SoC Processor GX-415GA 3.5" Micro Module



- > Onboard AMD G-Series SoC GX-415GA BGA Processor
- > One 204-pin DDR3 SODIMM Socket Supports Up to 8GB DDR3 1600 SDRAM
- > Dual View (HDMI, LVDS, VGA)
- > Dual Gigabit Ethernet, HD Audio
- > 2 SATA III, 1 Mini PCIe, 1 CF
- > 2 USB 3.0, 6 USB 2.0, 2 COM, 8-bit GPIO

+ Spec

System Information

Processor	AMD G-Series GX-415GA 4-Core 1.5GHz processor AMD G-Series GX-217GA 4-Core 1.6GHz processor AMD G-Series GX-210HA 4-Core 1.0GHz processor
System Memory	1 x 204-Pin DDR3 1600MHz SO-DIMM up to 8 GB
I/O Chipset	EC ITE IT8518VG
BIOS Information	AMI 32Mbit SPI BIOS
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec.
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control

Expansion

Expansion	1 x Mini PCIe Supports mSATA
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Storage

Storage	1 x CompactFlash Type III Socket
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Touch Screen

Built-in Touch controller (optional)	Chipset: PenMount 6000 Touch Screen Interface: With 9-pin 2.0mm Box Header (Can be Selected to Support 4/5/8-wire Touch Screen)
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I/O

USB Port	6 x USB 2.0 2 x USB 3.0
COM Port	1 x RS-232/422/485 1 x RS-232
SATA	2 x SATA III
DIO	1 x 8bit GPIO
MIO	1 x LPC 1 x PS2/ KB & MS 1 x SPI

Display

Graphic Chipset	AMD SoC Integrated Graphics Supports dual display
Spec. & Resolution	VGA: Max. resolution 1920x1200@ 60Hz HDMI: Max. resolution 1920x1080@ 60Hz LVDS: Max. resolution 1920x1080@ 60Hz CRT + LVDS, HDMI + LVDS, CRT + HDMI Dual-channel 18/ 24-bit LVDS (Through eDP)

Audio

Audio Codec	Realtek ALC888S supports 5.1-CH
Audio Interface	Mic-In, Line-In and Line-Out

Certifications

Certification Information	CE FCC Class B
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Ethernet

LAN Chipset	2 x Realtek 8111E
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45

Mechanical & Environmental

Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.4lbs (0.18kg)
Power Requirement	+12V ~ +26V
ACPI	Single Power ATX Support S0, S3, S5 ACPI 3.0 Compliant



Power Mode	AT/ATX
Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Software Support	
OS Information	Win 8 Win 7 Win XP Linux
Ordering Information	
Ordering Information	ECM-KA-415GA-B1R 3.5" W/415GA/2USB3.0/2COM/B1 ECM-KA-217GA-B1R 3.5" W/217GA /2USB3.0/2COM/B1 ECM-KA-210HA-B1R 3.5" W/210HA /2USB3.0/2COM/B1