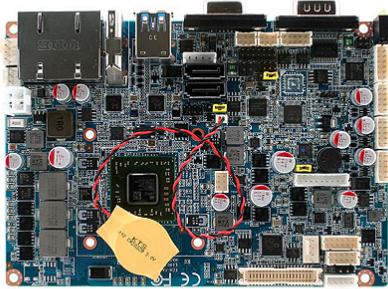




ECM-KA

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	
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 Chip	EC ITE IT8518VG
BIOS	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
Storage	
Storage	1 x CompactFlash Type III Socket
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)
I/O	
USB	6 x USB 2.0 2 x USB 3.0
SATA	2 x SATA III
COM Port	1 x RS-232/422/485 1 x RS-232
DIO	1 x 8bit GPIO
MIO	1 x LPC 1 x PS2/ KB & MS 1 x SPI
Display	
Chipset	AMD SoC Integrated Graphics Supports dual display
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	
Chipset	Realtek ALC892 supports 5.1-CH
Audio Interface	Mic-In, Line-In and Line-Out
Ethernet	
Chipset	2 x Realtek 8111E
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Mechanical & Environmental	
Power Requirement	+12V ~ +26V
ACPI	Single Power ATX Support S0, S3, S5 ACPI 3.0 Compliant
Power Type	AT/ATX
Operating Temp	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Weight	0.4lbs (0.18kg)
Certifications	



Certification Information	CE FCC Class B
Software Support	
OS Information	Win 8 Win 7 Win XP Linux

+ Ordering

ECM-KA-415GA-A1R
3.5" W/415GA/2USB3.0/2COM/A1

ECM-KA-217GA-A1R
3.5" W/217GA /2USB3.0/2COM/A1

ECM-KA-210HA-A1R
3.5" W/210HA /2USB3.0/2COM/A1