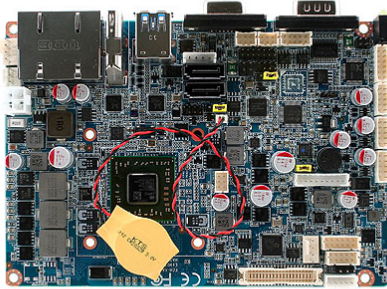




## ECM-KA

### 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	
<b>Processor</b>	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
<b>System Memory</b>	1 x 204-Pin DDR3 1600MHz SO-DIMM up to 8 GB
<b>I/O Chip</b>	EC ITE IT8518VG
<b>BIOS</b>	AMI 32Mbit SPI BIOS
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec.
<b>H/W Status Monitor</b>	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	
<b>Expansion</b>	1 x Mini PCIe Supports mSATA
Storage	
<b>Storage</b>	1 x CompactFlash Type I/II Socket
Touch Screen	
<b>Built-in Touch controller(optional)</b>	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	
<b>USB</b>	6 x USB 2.0 2 x USB 3.0
<b>SATA</b>	2 x SATA III
<b>COM Port</b>	1 x RS-232/422/485 1 x RS-232
<b>DIO</b>	1 x 8bit GPIO
<b>MIO</b>	1 x LPC 1 x PS2/ KB & MS 1 x SPI
Display	
<b>Chipset</b>	AMD SoC Integrated Graphics Supports dual display
<b>Resolution</b>	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	
<b>Chipset</b>	Realtek ALC892 supports 5.1-CH
<b>Audio Interface</b>	Mic-In, Line-In and Line-Out
Ethernet	
<b>Chipset</b>	2 x Realtek 8111E
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45
Mechanical & Environmental	
<b>Power Requirement</b>	+12V ~ +26V
<b>ACPI</b>	Single Power ATX Support S0, S3, S5 ACPI 3.0 Compliant
<b>Power Type</b>	AT/ATX
<b>Operating Temp</b>	0°C ~ 60°C (32°F ~ 140°F)
<b>Storage Temp</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Dimension (L x W)</b>	5.7" x 4" (146mm x 101mm)
<b>Weight</b>	0.4lbs (0.18kg)
Certifications	



<b>Certification Information</b>	CE FCC Class B
<b>Software Support</b>	
<b>OS Information</b>	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