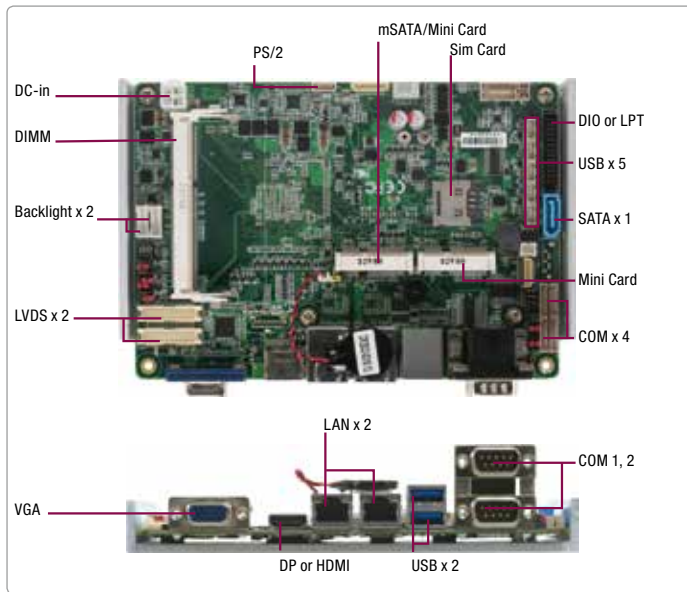


# EPIC-KB07

EPIC Board with AMD Embedded G-Series Quad/Dual Core SOC APU



## Specifications

System	
Form Factor	EPIC
Processor	AMD® GX-420CA Quad-core 2.0GHz SoC with AMD Radeon™ HD 8400E Graphics (25W) AMD® GX-217GA Dual-core 1.65GHz SoC with AMD Radeon™ HD 8280E Graphics (15W)
System Memory	204-pin DDR3/DDR3L(default) 1600MHz SODIMM , up to 8 GB
Chipset	AMD GX-420CA/GX-217GA
I/O Chipset	Fintek 81866D
Ethernet	Gigabit Ethernet, RJ-45 x 2
BIOS	AMI/UEFI
Wake On LAN	Yes
Watchdog Timer	1-255 steps by software program
H/W Status Monitoring	system temperature, voltage, and cooling fan status monitoring
Expansion Interface	Mini Card x 1, mSATA x 1, SIM Card Slot
Battery	Lithium battery
Power Requirement	+12V AT/ATX or 9-24V AT/ATX
Power Consumption (Typical)	AMD GX-420CA 2.0G, 8GB 1.35A@+12V
System Cooling	Heat-spreader (must add heatsink or cooler for thermal solution)
Board Size	4.5" x 6.5" (115mm x 165mm)
Gross Weight	0.5Kg(1.1lb) w/heat-spreader and package
Operation Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4 °F ~ 158 °F (-20 °C ~ 70 °C)
Operation Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	110,000
<b>Display</b>	Supports CRT/DP/HDMI/LVDS simultaneous dual view display
Chipset	AMD Embedded G-series Quad/Dual core SOC APU >>AMD® GX-420CA Quad-core 2.0GHz SoC with AMD Radeon™ HD 8400E Graphics (GPU Freq. 600MHz) >>AMD® GX-217GA Dual-core 1.65GHz SoC with AMD Radeon™ HD 8280E Graphics (GPU Freq. 450MHz)
Memory	Shared system memory up to 512MB
Resolutions	2048 x 1536 @ 75 Hz for CRT 1920 x 1200 @85Hz (Pixel clock 25-112 MHz) for LCD Display 1/2 up to 1920 x 1200p @ 60 Hz
LCD Interface	VGA x 1, DisplayPort x 1, LVDS 1 18-bit 1CH, LVDS 2 24-bit 2CH

## Features

- **AMD Embedded G-series Quad/Dual Core SoC APU**
  - » AMD® GX-420CA Quad-core 2.0GHz SoC with AMD Radeon™ HD 8400E Graphics
  - » AMD® GX-217GA Dual-core 1.65GHz SoC with AMD Radeon™ HD 8280E Graphics
- **204-pin Single Channel DDR3/DDR3L(Default) x 1, 1600MHz SODIMM up to 8GB**
- **Supports Dual Displays by VGA, (DP0/HDMI, LVDS1), (DP1, LVDS2)**
- **Gigabit Ethernet x 2, RJ-45 x 2**
- **SATA 6.0Gb/s x 1, mSATA/Mini Card Slot x 1**
- **USB 3.0 x 2, USB 2.0 x 5, RS-232/422/485 x 2, RS-232 x 4**
- **LPT/16-bit Digital I/O**
- **Mini Card x 1, SIM x 1**
- **+12VDC or 9-24VDC Wide Range AT/ATX**
- **SoC on Solder Side Design**
- **Supports Windows® XP, Windows® 7, Windows® 8 & Linux**



I/O	
Storage	SATA 6.0Gb/s x 1, mSATA x 1
Serial Port	RS-232/422/485 x 2 (COM 1, COM 2 on rear side) RS-232 x 4 with box header
Parallel Port	LPT port Co-lay with 16-bit DIO
USB	USB 3.0 x 2, USB 2.0 x 5, USB 1/2 total support 1.5A on rear I/O
PS/2 Port	Keyboard x 1, Mouse x 1
Digital I/O	16-bit Digital I/O (Programmable, 8-in/8-out)
Audio	Line-in/Line-out/Mic-in, 2W Amp. (optional)
Touch Screen	Supports 4/5/8-wire resistive touch screen (optional)

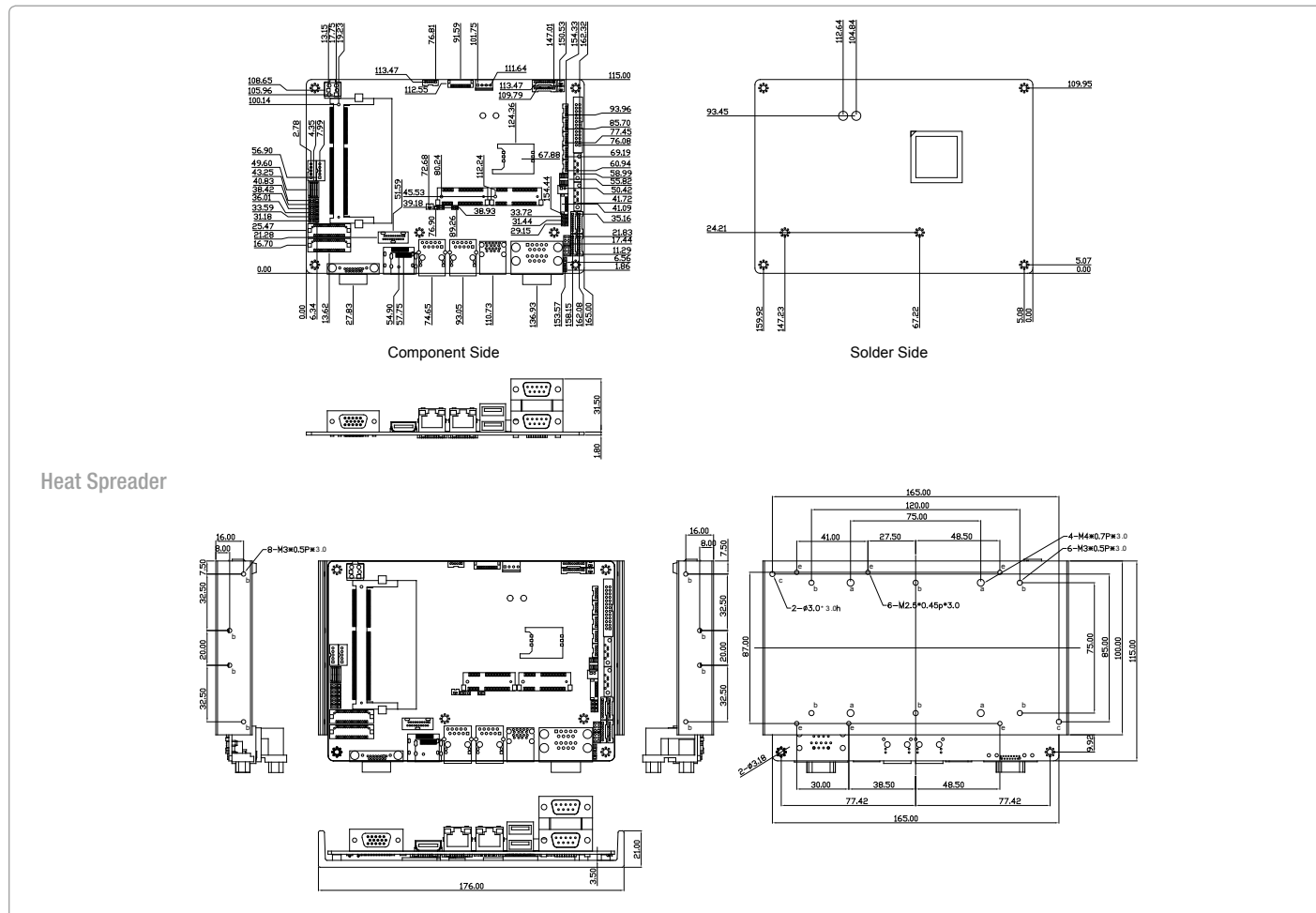
## Packing List

- **1709070500**  
SATA Cable 50cm
- **1702150155**  
SATA Power Cable 15cm
- **9657666600**  
Jumper Cap
- **M10KB07000**  
Heat Spreader (optional by model)
- **Product CD**
- **EPIC-KB07**

# EPIC-KB07

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	Fan/Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Temp
EPIC-KB07-A10-01	GX-217GA (15W)	—	CRT + LVDS1, CRT + DP	LVDS 1: 18b 1CH	SATA x 1, mSATA/Mini Card x 1	2	USB3.0 x 2, USB2.0 x 5	2	1	Mini-Card x 1	+12V AT/ATX	0°C ~ 60°C
EPIC-KB07-A10	GX-420CA (25W)	Heat Spreader	CRT + LVDS1 or LVDS 2, CRT + DP, LVDS 2 + DP, LVDS 1 + LVDS 2	LVDS 1: 18b 1CH or LVDS 2: 24b 2CH	SATA x 1, mSATA/Mini Card x 1	2	USB3.0 x 2, USB2.0 x 5	4	2	Mini-Card x 1, SIM x 1	9-24V ATX	0°C ~ 60°C

- Note:
1. Dual DP by request and the second DP is vertical type
  2. HDMI x 1 by request and trade off with DP
  3. Heat spreader surface temperature under 0°C ~ 65°C

## Optional Accessories

- **1701090150**  
Flat COM port cable, D-Sub 9(M) 15cm
- **1701260200**  
Flat LPT/DIO cable. D-Sub 25P Female cable, 20cm
- **1703120130**  
Flat LPC cable. 12 pin 13cm
- **1709100254**  
Audio phone jack cable, with Line-in, line-out & Mic-in 25cm
- **1700050207**  
Flat USB cable, 20cm
- **1700060155**  
Flat KB/Mouse PS/2 cable, 15cm
- **M10KB07010**  
Heat-spreader "I" type, 165x100x8.5mm
- **M16QM77030**  
Heat-sink, for 15W CPU, mounted with heat-spreader
- **17592QM770**  
CPU cooler, FAN+heat-sink for 25W CPU, mounted with heat-spreader