

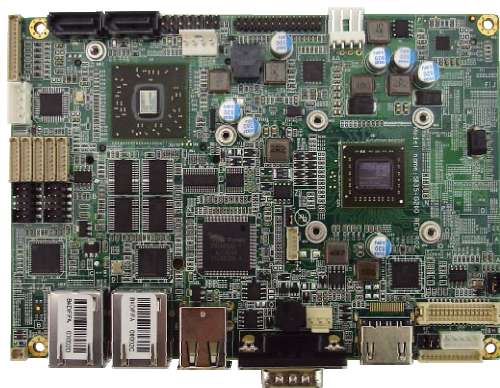
SB35-G2000

3.5" Industrial Single Board Computer With AMD Processor

SB35-G2000 based on AMD Fusion technology delivers a complete, full-feature embedded platform and incorporate the new low-power, x86 CPU with a world-class DirectX 11-capable GPU on a single piece of silicon. It is the perfect solution for application that require low power and significant graphic performance in a small form factor. The SB35-G2000 integrate high performance solutions, support system memory DDR3 up to 4GB, three types of storage device are considered, SATA interface, mSATA and CFast. High speed internet connectivity, it offers two ports of Gigabit Ethernet. And rich IO interface, 6 COM ports, 6 USB and 8-bit digital IO. SB35-G2000 provide three types of display interface, VGA, HDMI and dual 24-bit LVDS, as well as it supports dual display feature through VGA+HDMI, VGA+LVDS or HDMI+LVDS. SB35-G2000 is a great choice for customers who used embedded board for high performance, multi-media and small form factor. It is ideal for applications such as industrial control, digital signage, transportation, POS, information Kiosk, medical, casino gaming and factory automation.

Key Features

- Embedded AMD G-series Dual Core/Single Core Processor
- AMD T56N (1.65GHz) APU with GPU HD 6320
T40N (1.0GHz) APU with GPU HD 6290
T40R (1.0GHz) APU with GPU HD 6250
T16R (615MHz) APU with GPU HD 6250
- Advance Thermal Solution Fanless Design on T40R and T16R
- Low Power Consumption
- System Memory Support DDR3 up to 4GB
- Multi Display Dual 24-bit LVDS, HDMI or VGA
- High Resolution Display HDMI up to 1920x1080, VGA 1920x1200.
- Support High Graphic Performance DirectX 11, 2D/3D Acceleration
- Support two GbE,
- Rich I/O Interface 6 COM, 2 SATA, 6 USB, 8-bit GPIO
- Support 3 Types Storage Interface, SATA, mSATA, CFast
- Audio Interface Line-in, Line-out, MIC, Speaker Out
- Extended Interface Mini Card Socket
- 12V DC Input
- Wide Temperature Operation
- Dimension 146x101.6 mm (5.75" x 4")





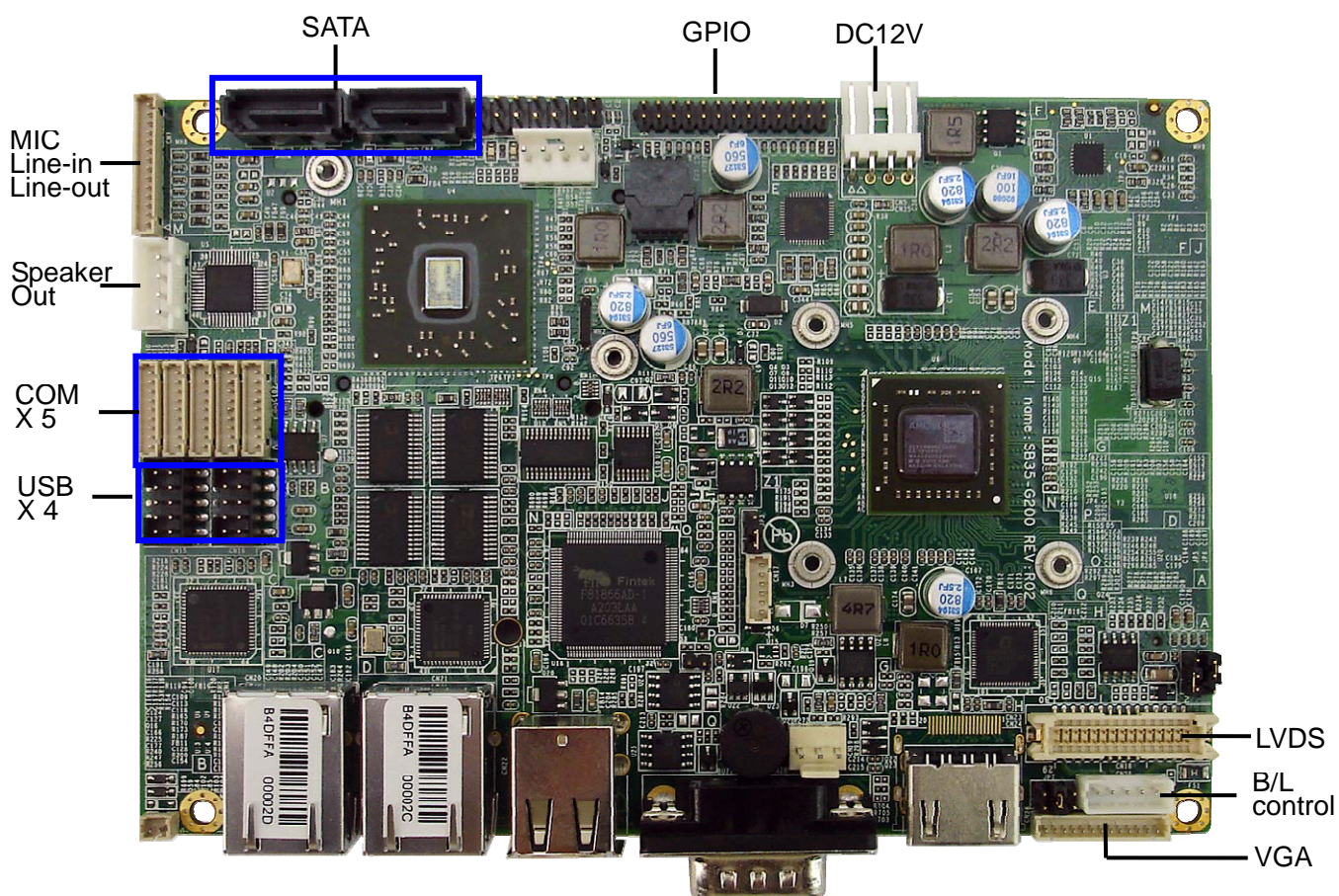
Specifications		Preliminary
Form Factor	3.5"	
Board Size	5.75" x 4" (146mm x 101.6mm)	
Processor	AMD APU T56N (1.65GHz) Dual Core with GPU HD 6320,	
	AMD APU T40N (1.0GHz) Dual Core with GPU HD 6290	
	AMD APU T40R (1.0GHz) Single Core with GPU HD 6250,	
	AMD APU T16R (615MHz) Single Core with GPU HD 6250	
Chipset	AMD G-series + FCH A55E	
System Memory	204-pin SODIMM x1, Max. 4GB DDR3-1066 (DDR3-1333 for T56N)	
BIOS	AMI Plug & Play SPI BIOS	
Display	AMD G-series GPU (HD6320, HD6290, HD6250)	
	Supports Hardware DirectX11, H.264/MPEG-4 video decoder	
	HDMI display resolution up to 1920x1080	
	VGA display resolution up to 1920x1200, (2560x1600 for T56N)	
	LVDS support dual channel 24-bit	
Ethernet	Speed, 10/100/1000 Mbps	
	Controller, two Realtek RTL-8111E	
	Connector, x2 RJ45 on rear IO side	
Audio	Audio Chipset Realtek ALC263	
	Line-out, Line-in, Mic, Speaker out	
Storage	SATA II (Max. data transfer rate 300MB/s) x2 , CFAST x1	
	mSATA optional (support either mSATA or full size mini card) x1	
Expansion	Full size mini card x1	
Rear IO Interface	RJ45 GbE x2 , USB 2.0 x2 , COM (RS232/422/485) x1 , HDMI x1	
On Board IO Interface	USB x4, COM (RS232) x5, VGA x1, LVDS Dual 24-bit x1,	
	Audio Line-in, Line-out, MIC, 8-bit GPIO	
Power Input	Single DC 12V	
Environment	Operation Temperature -20°C ~ 60°C	
	Non-operation Temperature -30°C ~ 80°C	
Ordering Information		
SB35-G2002-01	3.5", SBC Board, AMD T16R(615MHz) , Mini Card , 2GbE, 6COM, 6USB, VGA, HDMI, cFast, 12VDC, P	
SB35-G2003-01	3.5", SBC Board, AMD T40R(1.0GHz) , Mini Card , 2GbE, 6COM, 6USB, VGA, HDMI, cFast, 12VDC, P	
SB35-G2004-01	3.5", SBC Board, AMD T40N(1.0GHz) , Mini Card , 2GbE, 6COM, 6USB, VGA, HDMI, cFast, 12VDC, P	
SB35-G2006-01	3.5", SBC Board, AMD T56N(1.65GHz) , Mini Card , 2GbE, 6COM, 6USB, VGA, HDMI, cFast, 12VDC, P	

Specifications are subject to change without notice.

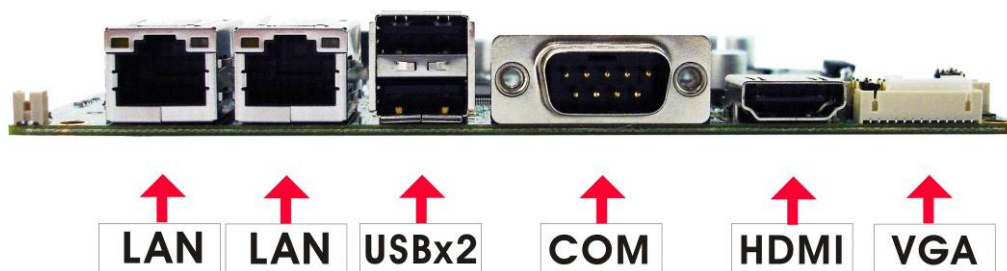
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Photos

SB35-G2000 Top Side View



SB35-G2000 Rear IO View





SB35-G2000 Bottom Side View

