

Single Board Computer



SBC-992-pITX

SBC with AMD Embedded G-Series SoC in Pico-ITX form factor

RADEON GPU and Multi-core processing



HIGHLIGHTS

- Smallest standard SBC in the market
- Connectivity-oriented
- Dual LAN
- Multi-display support (LVDS - HDMI - eDP - VGA)
- USB 3.0 support



Windows 8.1

Windows 10



Windows Embedded Standard 8



MAIN FIELDS OF APPLICATION



Gaming



Digital Signage -
Infotainment



Thin Clients



Point of Sales

FEATURES

Processor	AMD GX-420CA , Quad Core @ 2.0GHz, 2MB L2 Cache, TDP 25W AMD GX-415GA , Quad Core @ 1.5GHz, 2MB L2 Cache, TDP 15W AMD GX-217GA , Dual Core @ 1.65GHz, 1MB L2 Cache, TDP 15W AMD GX-210HA , Dual Core @ 1.0GHz, 1MB L2 Cache, TDP 9W AMD GX-210JA , Dual Core @ 1.0GHz, 1MB L2 Cache, TDP 6W	Other Interfaces	miniSIM slot (combo connector) FAN connector Front Header Expansion connector
Max Cores	4	Power Supply	12V _{DC} ± 10% RTC Battery with lead cable and connector
Memory	Up to 8GB on DDR3 1600MHz SO-DIMM @1.5V (DDR3-1333MHz with GX-210HA, DDR3-1066MHz with GX-210JA)	Operating System	Microsoft® Windows 7 (32 / 64 bit) Microsoft® Windows 8.1 (32 / 64 bit) Microsoft® Windows 10 (32 / 64 bit) Microsoft® Windows Embedded Standard 7 (32 / 64 bit) Microsoft® Windows Embedded Standard 8 (32 / 64 bit) Linux (32 / 64 bit)
Graphics	Embedded AMD HD RADEON GPUs HD8400E @ 600MHz (GX-420CA), HD8330E @ 500MHz (GX-415GA) HD8280E @ 450MHz (GX-217GA), HD8210E @ 300MHz (GX-210HA) HD8180 @ 225MHz (GX-210JA), Dual independent display support Supports DirectX® 11.1, OpenGL rel. 4.2 and OpenCL™ rel. 1.2	Operating Temperature*	0°C ÷ +60°C
Video Interfaces	HDMI connector Single Channel 18bit LVDS connector or embedded Display Port connector CRT interface (requires external Video Adapter)	Dimensions	72 x 100 mm (2.83" x 3.94")
Video Resolution	HDMI, resolution up to 1920 x 1200 LVDS, resolution up to 1600 x 900 (up to 1920 x 1200 through external adapter) eDP, resolution up to 2560 x 1600 CRT, resolution up to 2048 x 1536	*Measured at any point of the heatspreader/heatsink during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.	
Mass Storage	2 x standard SATA connectors microSD Card slot (combo connector)		
Networking	Up to 2 x Gigabit Ethernet connector		
USB	2 x standard USB 3.0 Type A 4 x internal USB 2.0 ports USB 2.0 interface on miniPCI-e Slot		
Audio	HD Audio Codec Realtek ALC886 Mic In, Line out internal pin header connector		
PCI-e	Half miniPCI-e slot		

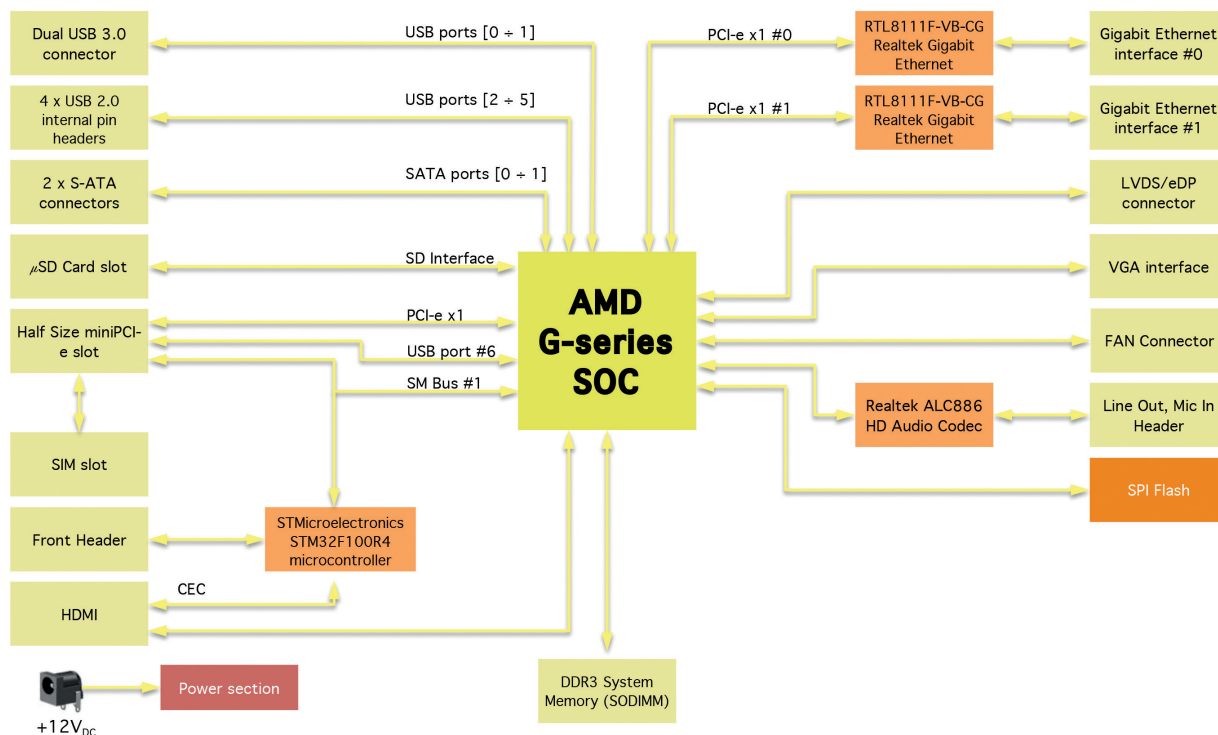


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BLOCK DIAGRAM



ORDERING INFORMATION

PN*	DESCRIPTION
S992-1000-1110-C0	AMD GX-210JA, Dual Core @1.0GHz, 6W - SATA female connector with power supply for HDD, Dual Ethernet port, LVDS video output (Commercial temp.)
S992-2000-1110-C0	AMD GX-210HA, Dual Core @1.0GHz, 9W, SATA female connector with power supply for HDD, Dual Ethernet port, LVDS video output (Commercial temp.)
S992-3000-1110-C0	AMD GX-217GA, Dual Core @1.65GHz, 15W, SATA female connector with power supply for HDD, dual Ethernet port, LVDS video output (Commercial temp.)
S992-4000-1110-C0	AMD GX-415GA, Quad Core @1.5GHz, 15W, SATA female connector with power supply for HDD, Dual Ethernet port, LVDS video output (Commercial temp.)
S992-5000-1110-C0	AMD GX-420CA, Quad core @2.0GHz, 25W, SATA female connector with power supply for HDD, Dual Ethernet port, LVDS video output (Commercial temp.)

*Additional configurations may be available. Please inquire for more information.

ACCESSORIES

PN	DESCRIPTION
S992-DISS-1-PK	Heat Spreader (PASSIVE)
S992-DISS-3-PK	Heat Sink (ACTIVE)
M908	VGA Adapter module M908
VA13-0000-1100-C0	USB to RS232 serial port converter with DB9 connector
VA13-0000-1200-C0	USB to RS422 serial port converter with DB9 connector
VA13-0000-1300-C0	USB to RS485 serial port converter with DB9 connector
CABKIT992	Connection Cables Kit for SBC-992-pITX
PWK-003	Power supply kit: Power brick [EA1050A(M03) 60W, 12V 5A] + Power cord (CV-AL006) + adapters (EU;US;JPN etc.)