ETX-GLX

High-performance ETX Computer on Module featuring a dual-core AMD® G-Series processor with Radeon® graphics

PROCESSOR

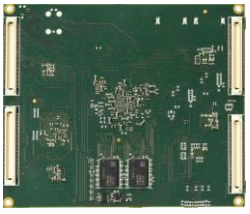
AMD x64/x86

OPERATING SYSTEM

Windows | Linux | Android

I/O

UART | LCD | USB | Ethernet | ISA | PCI



› x86 / x64

Run your existing PC based applications with minimal effort in migration.

› Passively Cooled

Consuming up to 6.0W (TDP), the AMD® G-Series APU is ideal for low power applications.

› High Performance

Features a dual-core processor, Radeon® graphics and up to 2GB of memory.

› Long-Life Components

Carefully-chosen components mean the ETX G-LX will be available for at least 10 years.

SUMMARY

The ETX G-LX is a high performance, low power and long life ETX Computer On Module .

Capable of running Windows® 10 IoT Enterprise, Linux and Android, the ETX G-LX is the ideal choice to extend the life of your ETX based products.

- Dual-core 1.2GHz AMD® Jaguar x64 / x86 APU
- AMD® Radeon® graphics
- 2GB and 4GB 64-bit DDR3 1333 memory options
- Compatible with existing ETX baseboards
- ISA and PCI bus retained for protecting legacy IO
- Supports either LVDS LCD or RGB LCDs
- Dual SATA interfaces
- Ultra Compact Size - 114 x 95mm
- LCD and VGA display options
- Runs Windows 10, Linux and QNX

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ETX G-LX

TECHNICAL SPECIFICATIONS

Core System

Processor	AMD® Embedded G-Series LX x2 'Jaguar' x64 / x86 cores, 1MB shared L2 cache Dual-Core CPU 1.2GHz clock speed, with boost to 1.4GHz
Memory	Low-power DDR3 DDR-1333 memory speed 64-bit memory bandwidth 2GB and 4GB options
Graphics	AMD Radeon® R1E graphics processor Digital Flat Panel Interface - LVDS or RGB LCD VGA (analogue) display
Audio	High Definition Audio Cirrus Logic CS4207 codec Stereo Inputs and Outputs
Watchdog	No
Real Time Clock	Yes - battery backup option on host board

Operating System

OS Support	Windows® 10 IoT Enterprise Linux® (Ubuntu® image available) Android® x86

I/O

	Quad USB 2.0 Compliant ports Two 16C550 compatible serial ports at TTL level signalling Parallel port with Bi-directional, EPP & ECP PS/2 compatible keyboard and mouse port 10/100 BaseT - including PXE boot ROM for remote boot
Expansion/Other	As per ETX specification, 4 connectors (X1-X4). ISA Expansion supports three standard 16-bit ISA devices Connector X1 - PCI Bus, USB and Audio Connector X2 - ISA Bus Connector Connector X3 - VGA, LCD, COM1&2 (TTL) LPT1, M/KB Connector X4 - LAN (non-isolated), 2 x EIDE (4 drives)

Power

Input Voltage	5 Volt only operation (and 5 volt standby if ATX operation required)
Power Consumption	Less than 5 watts with Windows 10 in idle state (including external SSD, no display, no active peripherals or ethernet) Suspend and Resume not supported

Physical

Operating Temperature	0°c to 60°c
Storage temperature	-20°C to +70°C
Relative Humidity	5 - 95% non-condensing
Overall Dimensions	114 x 95mm
Mounting Options	Four corner mounting holes
Approvals	CE, UKCA

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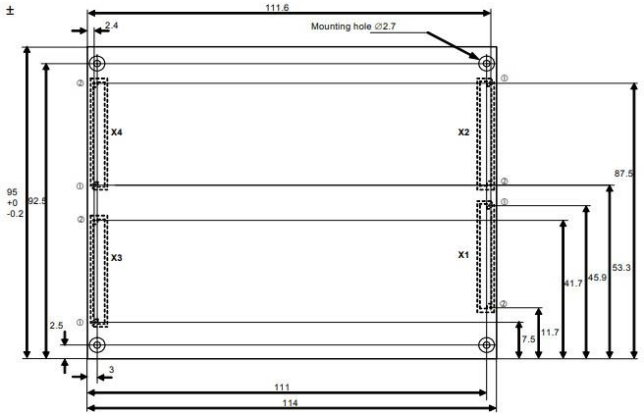
** Windows® is a trademark of Microsoft, Inc*
** Android is a trademark of Google LLC*
** Linux is a registered trademark of Linus Torvalds*
** Ubuntu is a registered trademark of Canonical*

OPTIONS

A low profile passive heat sink is available
For improved overall thermal performance the heat sink can be supplied with a small long life fan.

ETX EXPLAINED

Embedded Technology extended (ETX) modules are very compact (114 x 95mm) highly integrated computers. All ETX modules have a standardised form factor together with a standardised connector layout that carry a specified set of signals. This standardisation allows designers to create a single system "baseboard" that can accept present and future ETX modules.
ETX modules include common PC peripheral functions such as graphics, USB, serial ports, parallel ports, keyboard/mouse, Ethernet and IDE. The baseboard designer can optimise exactly how each of these functions, if required, is physically implemented, or not. Peripheral connectors can be placed precisely where needed on a baseboard to allow optimal system packaging.
Peripheral PCI or ISA devices can be implemented directly on the baseboard rather than on mechanically unwieldy expansion cards, The ability to build a system on a single baseboard, using the computer as a "plug-in" component, simplifies system packaging, minimises cabling and reduces system cost.
The modularity of an ETX solution ensures against obsolescence as processor technology evolves. A properly designed ETX baseboard can be used with successive generations of ETX modules.
The ETX core module includes standard computer functions on a 114mm x 95mm footprint, with a standardised connector and signal layout.
The ETX module connects to a carrier board which can be tailored to the functional requirements of the target product. This arrangement offers all the advantages of a custom solution but with a simple migration path, reduced risk, engineering effort and a much faster time to market.



For more information, visit
bluechiptechnology.com/products/xe1

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