

GS2000 Gaming Platform

The GS2000 series gaming platform is a fully-featured X86 based gaming platform supporting a broad range of IPC grade mini ITX motherboards. The GS2000 platform allows gaming machine manufacturers to optimise platform specifications and pricing for their products, selecting the best computing platform for their projects through a Configure To Order (CTO) process. As each new generation of chipset/SOC becomes available, e2c will make immediate release of the best motherboards available, so manufacturers can build with the very latest technology without delay and cost premium.

GS2000 series gaming IO is controlled by e2c's powerful iSocket **Gaming Device Manager (GDM)** middleware, supporting all standard gaming peripherals and protocols, including e2c's range of gaming reel controllers. e2c's iSocket powered Gaming Device Manager (GDM) integrates support for all industry standard device protocols including SAS 6.02.



Key Features

- Fully featured all-in-one mini ITX gaming platform with PCIe gaming core
- Supports broad range of IPC grade mini ITX motherboards (Intel and AMD)
- e2c GDM middleware supports all gaming protocols/peripherals
- Internal 3G option with dual antenna. Onboard SM
- SHA256 Crypto-Authentication game security
- Extensive GPIO and peripherals interfaces (64bit)
- Multiple serial ports including 9 bit/RS485/TTL
- Up to 8MB PCIe, mirrored battery-backed SRAM
- 8 intrusion inputs (battery backed) + RTCC
- 2X6W stereo class D audio amplifier
- Integrated SAS 6.02

Fully Featured GLI compliant gaming platform

- Up to 8MB fast PCIe battery backed SRAM
- 2, 3 and 4 screen versions up to 4K@60Hz
- Windows or Linux O/S
- Cost optimisation - from mid level to performance level

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Whilst GS2000 can support many IPC mini ITX motherboards, e2c provide the following recommended build configurations. Consult e2c sales for the full range of motherboard and other build options.

GS2000 Gaming Interfaces		Example Motherboard Specifications/Options			
General Purpose IO		Model	Intel Skylake H110	Intel Skylake Q170	AMD R Series (MF)
Digital Inputs	32 bits TTL, ESD protected	Performance	Mid Range Dual Screen	Performance 3 Screen	Performance 3 Screen
Digital Outputs	24 bits, Open Drain 350mA, 36V	CPU/APU/SOC	Socket 1151/H110	Gen 6 LGA1151	RX-421BD Quad Core
High Current output	11 x 3A / 36V open drain	Core Speed	Depends soon CPU	Depends on CPU	2.1-3.4GHz
Logging processor		DDR	DDR4	DDR4	DDR4
Intrusion inputs	8 (1 internal to case) >100 days	TDP	35W	35W	35W
Opto Intrusion drive	Yes	Graphics	Intel Gen9	Intel HD Gen 9	Radeon HD10000
Power event logging	Yes (reset, brown-out, power on)	Display 1	HDMI (4096x2160)	HDMI 4K	DP1.2 4K@60Hz
Number of events	256 time stamped	Display 2	HDMI (4096x2160)	HDMI 4K	DP1.2 4K@60Hz
RTCC function	RTCC battery backed	Display 3	--	HDMI 4K	DP1.2 4K@60Hz
ATX watchdog	Yes	Display 4	--	--	(DP1.2 with Bald Eagle)
Serial Interfaces	GDM controlled (rear IO)	LAN1	GbE	GbE	GbE
TX/RX/CTS/RTS	1	LAN2	GbE	--	GbE
RS232/TTL	1	Serial RS232	4	3	1
RS232/485	1	Serial RS232/RS485	2	1	1
CCTalk Bus	Supports 16 devices via GDM	PCIe serial expansion	CCTalk + 2xRS232 + 1xRS232/TTL		
Audit Meters		USB (2.0 + 3.0)	4 + 4	8 + 2	4 + 4
Hard meter	8	(mSATA + mPCIe)	(1 + 1)	(1 + 1)	(2 + 1)
Meter current sense	Yes	General Specifications			
Digital meter	SEC Meter (SPI meters)	System power	12V DC 100W	12V DC 100W	12V DC 100W
NV storage		Security	Key Lock + microswitch+SHA256 crypto processor		
Dual banked SRAM	2 x 4MB PCIe SRAM	Dimensions	265mm x 200mm x 62mm (with brackets)		
Retention	Li ion rechargeable >100 days	Thermal Management	Fanless	Quiet Fan	Quiet Fan
Auto mirror function	Yes	Audio	2 x 15W stereo Class D. Software Mute control		
Speed (write)	>5Mbytes/sec	3G Option	mPCIe + onboard SIM + Dual ANT. kit		