

GC100 Gaming Controller

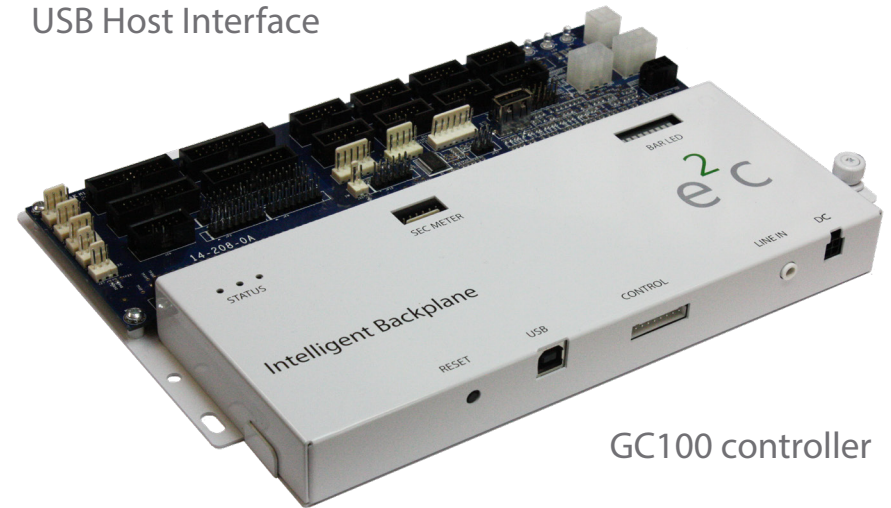


The GC100 is a fully featured gaming controller which supports all functions required in a gaming cabinet. GC100 is controlled by e2c's powerful **iSocket** single API middleware, supporting all standard gaming peripherals and IO.

The GC100 controller allows system architects to separate the hardware-specific machine interface functions from the X86 computing platform. This allows designers freedom of choice on computing platform, whilst minimising the effort involved in supporting peripherals and low level control interfaces.



USB Host Interface

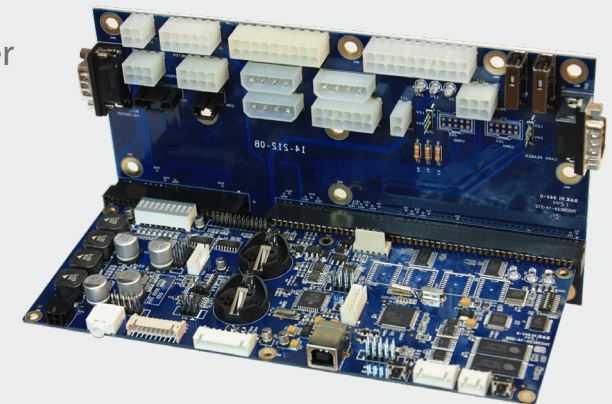


GC100 controller

Key Features

- GLI compliant gaming controller
- Single API for all gaming peripherals
- SHA256 Crypto-Authentication security
- 32 In + 32 Out + 3 high current outputs
- 3 serial ports + CCTalk
- 2 x 512kB battery backed SRAM
- 8 intrusion inputs (battery backed)
- Battery backed event logging with RTC
- I²C + 1-Wire expansion interfaces
- ATX watchdog with programmable on/off
- Integrated SAS 6.02
- 2 x RS232 ports

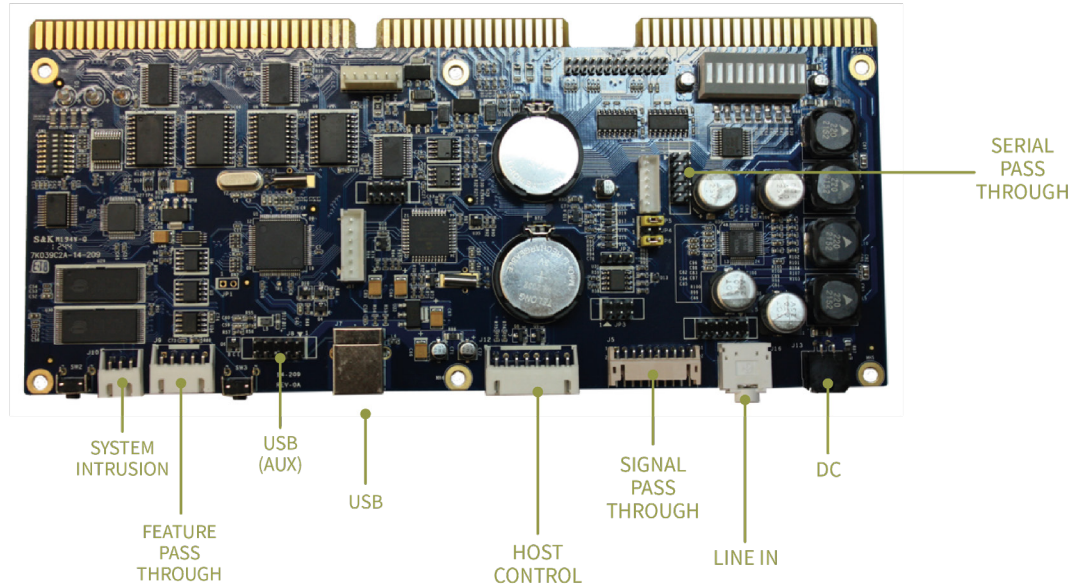
GC100 controller and backplane



GC100 Gaming Controller



E2C 96.48 Edge Connector Interface



By separating the machine control for the X86 requirements, the GC100 controller enables significantly reduced time to market. With iSocket's GDM API, platform migration could not be simpler - or quicker!

e2c has a full range of controllers for gaming, including our industry-leading RC series high-performance gaming reel controllers.

GC100 can be combined e2c's PX100 companion SRAM/serial board to provide a complete GLI/class III gaming solution.

Feature	Specification
General	
Host Interface	USB 2.0/1.1 (Full speed)
USB Power	USB Bus powered (<200mA)
12V DC	2A (with amp)
Battery backup power	2 x rechargeable/coin >100days
Form factor	E2c 98.46 (212 x 96 mm)
General purpose IO	
Digital Inputs	32 bits, TTL, ESD protected
Digital Outputs	32 bits, Open Drain 350mA, 35V SC/OC error detection
High Current output	3 x 3A / 35V open drain
Logging processor	
Intrusion sensed inputs	8
Opto intrusion drive	Yes
Power event logging	Yes (reset, brown-out, power on)
Number of events	256 time stamped
RTC function	RTCC battery backed
Serial Interfaces	
TX/RX/CTS/RTS	1 x (9 bit support)
TX/RX	2 x
CCTalk Bus	Yes. Supports 16 devices
Serial pass through ports	18 signal lines
Audio amplifier	2 x 15W Class D stereo
Audit Meters	Hard meter sense + SEC/SPI
SRAM (battery backed)	2 x 512KB battery backed
NV memory	128kB EE + DIP socket
Security	SHA256/16 keys + RNG + UID
Serial expansion/comms	1-Wire + I ² C