

KS1000 Kiosk Platform



e2c's SmartConnect KS1000 is a multi-function product intended for application in payment-centric vertical markets, including: kiosks, retail automation, smart vending, gaming and banking. KS1000 combines e2c's smart hub technology with a powerful Quad Core Intel Brasswell SOC, to provide a fully featured, payment-enabled embedded computing platform.

KS1000 integrates e2c's iSocket™ powerful device middleware with integrated remote management. Everything that can be controlled by KS1000 can be monitored and managed remotely. With support for 250+ payment devices, integrating cash or cashless payment solutions could not be simpler.

KS1000 dramatically simplifies development of payment-centric solutions.



Key Features

- Intel Brasswell quad-core compute + integrated Smart Hub
- Dual displays (HDMI + Display Port @ 4K/2K)
- Compact, low-power, robust fanless solution
- Integrated e2c Smart Hub including MDB and 2 x CCTalk e2c
- iSocket PDM out-of-box support for 250+ peripherals
- Integrated IoT remote monitoring and server-side control
- Dual LAN + WiFi/3G RF connectivity options
- 6 x serial ports including RS232/RS485/TTL
- 8 x GPIO + battery backed intrusions
- Wide operating voltage (9 - 36V)
- Battery backed SRAM, EEPROM and Crypto processor
- 2W/ch Audio Amplifier

Typical Market Applications

- Kiosks
- Retail self-service
- SmartVending
- Gaming machines e.g. AWP, Betting, low cost >> Banking and cash handling

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Smart Hub Interfaces		Intel Computing Platform	
General Purpose IO		Model	KS 1000
Digital Inputs	4 bits, TTL, ESD protected	Markets	Kiosk/Smart Vending/Banking/Gaming
Digital Outputs	4 bits, OD @ 1A, ESD protected	CPU/APU/SOC	Intel Brasswell N3160 Quad Core
DC Out	5V @ 500mA max	CPU speed	1.6 (2.24) GHz burst
1 Wire	Internal Expansion option	System memory	4GB DDR3 (8GB Max)
SPI	Internal Expansion option	Audio	MIC/Line/2W amplifier
Serial Interfaces		Graphics	Intel HD Graphics (4K/2K @30Hz)
TX/RX/CTS/RTS RS232	2	Display 1	HDMI
TX/RX RS232/RS485	1	Display 2	DP
CCTalk	2 (independent)	LAN1/2	GbE
MDB	1 (master)	USB3.0	4
TX/RX RS232/TTL	1	USB2.0	1
TX/RX RS232	1	mPCIe	1 x (X1 +USB)
9 bit support	Yes	SATA	1 x SATA III
General Functions		Drive bay	1 x 2.5" SSD bay
SRAM (battery-packed)	1MB	WiFi/BLE option	Via mPCIe
EE memory	16k bits	O/S + Middleware	Windows/Linux + iSocket PDM
Audio	Line out + MIC + HDMI	General Specifications	
Speaker	2W/channel stereo	System power	9- 36 VDC @ 1.5A max (5.5/2.5 DC Jack)
Security processor	SHA256 (16 keys)	Case	Aluminium Extrusion
RNG	Yes	Dimensions	180 x 131 x 60 mm
Unique ID	72 bit	Thermal Management	Fanless (<10W TDP)
RTCC	Yes	Antenna (options)	2 x RP-SMA to U.FL (internal)
System level watchdog	Yes		

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