

SC200 Smart Connect



e2c's SmartConnect SC200 is a multi-function product intended for application in numerous vertical markets, including: retail, kiosk, smart vending, gaming and general automation and control. SC200 combines e2c's smart IO control technology with a powerful multi-core ARM processor (Freescale's i.MX6) to provide a eLinux standalone solution combining multimedia with extensive peripheral and IO control in a compact form factor.

SC200 is a ideal solution for emerging IoT applications, as it provides a full complement of networking interfaces, including: dual LAN, WiFi and 3G.

SC200 integrates e2c's iSocket™ powerful device middleware with integrated remote management. Everything that can be controlled by SC200 can be monitored and managed remotely.



Key Features

- Fully featured all-in-one computing platform/smart hub/IoT gateway
- Dual core Freescale i.MX6 processor with HDMI + VGA (option) displays
- Extensive IO including dual LAN, WiFi and 3G
- e2c iSocket middleware supports multi-industry peripherals and protocols
- Integrated IoT remote monitoring and server-side control
- Secure SHA256 Crypto-processor
- Extensive GPIO and peripheral interfaces
- Cashbus Interface for cash handling peripherals (CCTalk and MDB)

- Multiple serial ports including 9 bit/RS232/RS485/TTL
- Battery backed SRAM and EE memory non-volatile storage
- Integrated stereo class D audio amplifier

Fully-featured multi-media IoT platform

- Freescale i.MX6 multi-core processor
- Extensive IO interfaces
- Full complement of network interfaces

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Smart Hub Interfaces		ARM Computing Platform	
General Purpose IO		Model	SC200
Digital Inputs	16 bits TTL, ESD protected	Market	IoT
Digital Outputs	16 bits TTL, ESD protected	CPU/APU/SOC	I.MX6 Dual Core Lite
I2C	Yes (400 KHz max)	CPU speed	1.0 GHz
CAN	Yes	eMMC onboard	2GB
SPI	Yes (+2 chip selects)	Audio	--
Serial Interfaces		Graphics	
TX/RX/CTS/RTS RS232/TTL	1	Display 1	HDMI (1080p)
TX/RX RS232/RS485	1	Display 2	--
RS232/CCTalk	1	LAN1	GbE
RS232/MDB	1	LAN2	10/00
CCTalk	1 BUS	SATADOM	--
MDB (master/slave)	1 BUS	mPCIe	X1 + USB
9 bit support	Yes	SDcard	Micro SD card
General Functions		USB2.0	4 ports
SRAM (battery-backed)	256kB	WiFi/BLE option	Via mPCIe module
EE memory	16kbits	O/S + Middleware	Embedded Linux + iSocket
Audio	Line out + MIC + HDMI		
Speaker	2W/ channel stereo	System power	12V DC @ 1 A max
Security processor	SHA256 (16 keys)	Case	Sheet metal + powder coat + mounting brackets
RNG	Yes	Dimensions	155mm x 118mm x 36mm
Unique ID	72 bit	Thermal Management	Fanless/passive cooled
RTCC	Yes		

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