Rabbit Semiconductor
SBC4S200 Series
Single-board computer

Features				
Microprocessor	Rabbit® 4000 @ 58.98 MHz		Rabbit® 5000 @ 73.73 MHz	Rabbit® 4000 @ 29.49 MHz
Network Interface	10/100Base-T, 3 LEDs	10Base-T, 2 LEDs	Wi-Fi (802.11b/g)	ZigBee PRO Feature Set
Flash Memory (Program)	512 KB (Serial Flash)	512 KB (Parallel Flash)	1 MB (Parallel Flash)	512 KB (Parallel Flash)
Flash Memory (Data Storage)	miniSD™ Card 128 MB to 1 GB	-		
Program Execution SRAM	512 KB	-	1 MB	-
Data SRAM	512 KB			
Backup Battery	Renata CR2032 or equivalent 3 V lithium coin type, 235 mA·h standard, socket-mounted			
Configurable I/O	32 individually software-configurable I/O channels may be configured as digital inputs 0–36 V DC, switching threshold 1.4 V/1.9 V typical, or as sinking digital outputs up to 40 V, 200 mA each			
High-Current Digital Outputs	8 outputs individually software-configurable as sinking or sourcing, +40 V DC, 2 A max. per channel			
Analog Inputs	Eight 11-bit res. channels, software-selectable ranges unipolar: 1, 2, 2.5, 5, 10, 20 V DC; bipolar ± 1, ±2, ±5, ±10 V DC: 4 channels can be hardware-configured for 4–20 mA; 1 MΩ input impedance, up to 4,100 samples/s			
Analog Outputs	Two 12-bit res. channels, buffered, 0–10 V DC, ±10 V DC, and 4–20 mA, update rate 12 kHz			
Serial Ports	5 serial ports: • 1 RS-485 • 2 RS-232 or 1 RS-232 (with CTS/RTS)	4 serial ports: • 1 RS-485 • 1 RS-232 (no CTS/RTS)	5 serial ports: • 1 RS-485 • 2 RS-232 or 1 RS-232 (with CTS/RTS)	
	1 clocked serial port multiplexed to 2 RS-422 SPI master ports 1 serial port dedicated for programming/debug			
Serial Rate	Max. asynchronous rate = 120 Kbps			
Hardware Connectors	2 RabbitNet™ RJ-45 connectors • 7 polarized 2x5 Micro-Fit connectors, 3mm pitch • 1 polarized 2x7 Micro-Fit connector, 3mm pitch • 1 polarized 2x2 Micro-Fit connector, 3mm pitch • 1 polarized 2x3 Micro-Fit connector, 3mm pitch • Programming port: 2 × 5 IDC, 1.27 mm pitch			
Network Connectors	1 RJ-45 Ethernet		1 RP-SMA antenna	-
Real-Time Clock	Yes			
Timers	Ten 8-bit timers (6 cascadable, 3 reserved for internal peripherals), one 10-bit timer with 2 match registers			
Watchdog/Supervisor	Yes			
Power	9-36 V DC, 4.5 W max		9-36 V DC, 9 W max	9-36 V DC, 4.5 W max
Operating Temperature	-20° C to +85° C (-40° C to +85° C without the miniSD Card)		-30° C to +75° C	-40° C to +85° C
Humidity	5–95%, non-condensing			
Board Size	3.75″ × 5.75″ × 0.95″ (96 mm × 146 mm × 24 mm)		3.75″ × 5.75″ × 0.66″ (96 mm × 146 mm × 17 mm)	