



# Perseus Tech. International Corp.

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Golden Tech. Tower  
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TEL: +886-2-87922778 FAX: +886-2-87922108  
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## Bluetooth Module (BTM-CSR-M8-C2)

The bluetooth module (named **BTM-CSR-M8-C2**), provided by the **Perseus Tech. International Corp.** apply the **CSR** chip. Since the flash memory is included in the Bluetooth module, the Bluetooth module provides **more flexibility** during application. The Bluetooth module can work with any laptop, handheld PC/ notebook computer, PDA, printer, scanner, digital camera, wireless key-board, wireless mouse, car kit or cordless headset/earphone, etc. With our Bluetooth module, one can design the equipment with Bluetooth function easily.

The Characteristics of our bluetooth module are:

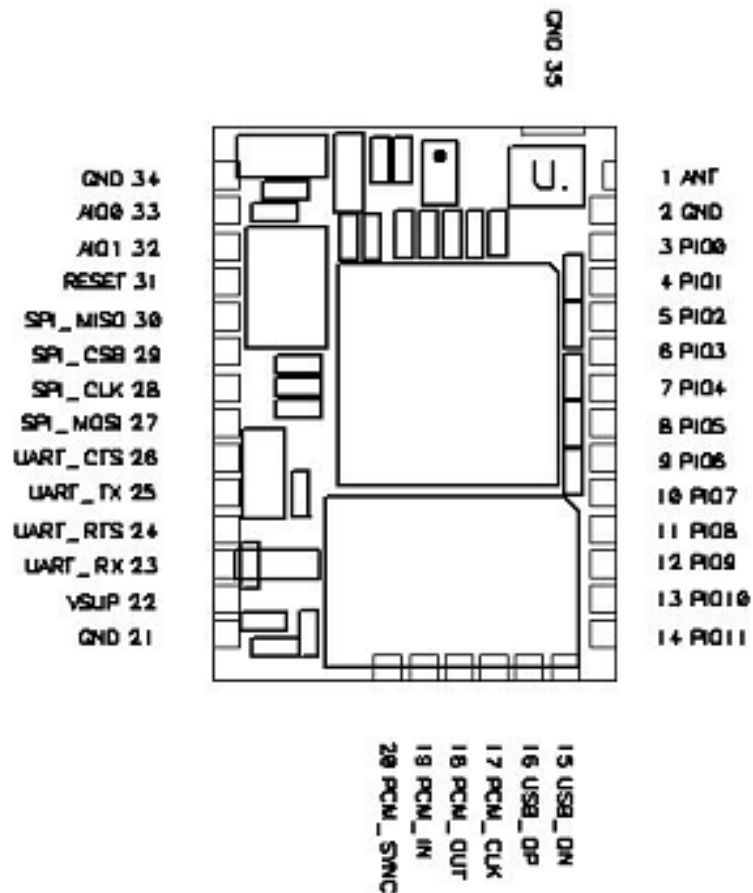
- 8M bit flash memory for complete system solution
- Bluetooth v1.2 compliant
- USB/UART/PCM/PIO interface
- Output power supported : Class 2
- 10 meter working distance
- UART interface with programmable baud rate
- Internal Codec without external PCM Codec
- Full speed USB interface support
- No external trimming is required in production
- Frequency band: 2.4GHz unlicensed ISM band
- Modulation: GFSK (Gaussian Frequency Shift Keying)
- Connection mode: Active, Hold, Sniff, Park
- Data rate: 723Kbps (max.)
- Sensitivity: >-80 dBm @ 0.1BER
- Size: 20mm(L) x 14.5mm(W) x 2.5mm(H)



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## Device Pinout Diagram (BTM-CSR-M8-C2)





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## Device Pinout Details (BTM-CSR-M8-C2)

Pin No.	Pin name	Pad type	Description
1	ANT	I/O	Transmitter out and receiver input
2	GND	GND	Ground connection
3	PIO0/RXEN	I/O	Control output for external LNA (if fitted)
4	PIO1/TXEN	I/O	Control output for external PA class 1 only
5	PIO2/USB_Pull_Up	I/O	PIO or USB pull-up
6	PIO3/USB_Wake_Up	I/O	PIO or Output goes high to wake up PC when in USB mode
7	PIO4/USB_ON	I/O	Programmable I/O lines/Interrupt request 1
8	PIO5/USB_DETACH	I/O	PIO line or chip detaches from USB when this input is high
9	PIO6/CLK_REQ	I/O	PIO line or clock request for external clock line
10	PIO7/RAM_CSB	I/O	Programmable I/O line
11	PIO8	I/O	Programmable I/O line
12	PIO9	I/O	Programmable I/O line
13	PIO10	I/O	Programmable I/O line
14	PIO11	I/O	Programmable I/O line
15	USB_DN	I/O	USB data minus
16	USB_DP	I/O	USB data plus
17	PCM_CLK	I/O	PCM Synchronous data clock
18	PCM_OUT	I	PCM synchronous data output
19	PCM_IN	I	PCM Synchronous data input
20	PCM_SYNC	I/O	PCM synchronous data SYNC
21	GND	GND	Ground connection
22	VSUP	VDD	3V3 for RF circuit
23	UART_RX	I	UART data input
24	UART_RTS	O	UART request to send
25	UART_TX	O	UART data output
26	UART_CTS	I	UART clear to send
27	SPI_MOSI	I	Synchronous serial interface data input
28	SPI_CLK	I	Synchronous serial interface clock



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Pin No.	Pin name	Pad type	Description
29	SPI_CSB	I	Chip select for synchronous serial interface
30	SPI_MISO	O	Synchronous serial interface data input
31	RESET	I	Module reset if high
32	AIO1	I/O	Programmable Input/Output line
33	AIO0	I/O	Programmable Input/Output line
34	GND	GND	Ground connection



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## Package Dimensions (BTM-CSR-M8-C2)

