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# Bluetooth 5 is here!

2x SPEED      4x RANGE      8x BROADCAST CAPACITY

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## Difference Between CSR8670 And CSR8675

Jul 06, 2018

### Difference between CSR8670 and CSR8675

CSR modules are often used in high-end Bluetooth headsets, high-end Bluetooth speakers, vehicle multimedia, and dual mode blue devices. Here is the difference between CSR8670 and CSR8675.






Difference between CSR8670 and CSR8675		
CSR8670	CSR8675	CSR8675 Main Advantages
<b>BT4.0 (Upgrade to 5.0 via software)</b>	<b>BT4.1 (Upgrade to 5.0 via software)</b>	
<b>80MHz RISC MCU and 80MIPS Kalimba DSP</b>	<b>80MHz RISC MCU and 120MHz Kalimba DSP</b>	
	<b>Up to 120MIPS DSP for intensive digital signal processing algorithms</b>	<b>Faster computing speed</b>
<b>16-bit audio</b>	<b>24-bit audio</b>	<b>With much better Sound</b>
<b>Supported sample rates of 8, 11.025, 16, 22.05, 32, 44.1, 48 and 96kHz (DAC only)</b>	<b>Supported sample rates of 8, 11.025, 16, 22.05, 32, 44.1, 48, 96 kHz and 192kHz (DAC only)</b>	<b>quality, close to HD (sound sampling rate 24Bit, 192KHz)</b>
<b>Internal 16Mb Flash(extendible external 64Mb SPI Flash)</b>	<b>Internal 16Mb Flash(extendible external 64Mb SPI Flash)</b>	
<b>Stereo codec and 2 path MIC (Line in)</b>	<b>Stereo codec and 2 path MIC (Line in)</b>	
<b>Max 6 path digital MIC (MEMS)</b>	<b>Max 6 path digital MIC (MEMS)</b>	
<b>Support for CSR's latest CVC technology for narrow-band and wideband voice connections including wind noise reduction</b>	<b>Support for CSR's latest CVC technology for narrow-band and wideband voice connections including wind noise reduction</b>	
<b>1 x I<sup>2</sup>S/PCM</b>	<b>2 x I<sup>2</sup>S/PCM</b>	<b>Meet the needs of multiple digital audio interfaces</b>
<b>SPDIF (Take up I<sup>2</sup>S/PCM's interface)</b>	<b>SPDIF (no take up I<sup>2</sup>S/PCM's interface)</b>	<b>Can be mapped to any I/O port, with greater freedom on circuit design and integration</b>
<b>Serial interfaces: UART, USB2.0 full-speed, I<sup>2</sup>C</b>	<b>Serial interfaces: UART, USB2.0 full-speed, I<sup>2</sup>C and SPI</b>	

	<b>Master and slave bit-serialiser (I<sup>2</sup>C and SPI)</b>	<b>Support master-slave I2C and SPI communication</b>
<b>Support for up to 6 capacitive touch sensors or inputs</b>	<b>Support for up to 6 capacitive touch sensor inputs</b>	
<b>Battery charger</b>	<b>Battery charger</b>	
<b>3 hardware LED controllers (for RGB) and ability to drive LCD segment display directly</b>	<b>3 hardware LED controllers (for RGB) and ability to drive LCD segment display directly</b>	
<b>Up to 29 PIO ports (BGA package)</b>	<b>Up to 32 PIO ports (BGA package)</b>	

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