



S-POWER ELECTRONICS LTD.

...iSmarter wireless connectivity

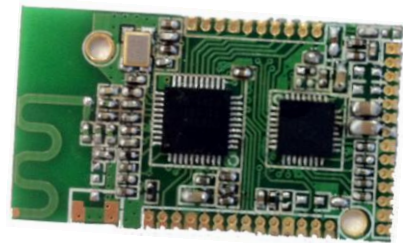
BG311 Wireless Audio Module

The 2.4GHz Wireless platform is a cost-effective and low-power solution optimized for wireless transmission of high-quality digital audio.

The BG311 Module includes a robust built-in wireless audio transmission protocol and Built-in audio ADC/DAC. Utilizing numerous coexistence mechanisms allows the BG311 to avoid interfering with, or being interfered by other 2.4 GHz radio systems.

APPLICATIONS

- ◆ Wireless high-quality digital audio
- ◆ Wireless point-to-point audio link
- ◆ Wireless (USB) headphones / headsets
- ◆ Wireless (USB) loudspeakers
- ◆ Wireless speaker systems
- ◆ Wireless Microphone



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RF	<ul style="list-style-type: none"> - 5 Mbps over-the-air data rate - Bandwidth-efficient modulation format - +4dBm output power and -87dBm sensitivity - Suited for systems targeting compliance with worldwide radio frequency regulations: ETSI EN 300 328 and EN300 440 class 2 (Europe), FCC CFR47 Part 15 (US) and ARIB STD-T66 (Japan)
Low Power	<ul style="list-style-type: none"> - Working Mode :120mA - Power Down Mode : 150 μA - Wide Supply Voltage Range (2.2 V–3.6 V)
Digital Audio Support	<ul style="list-style-type: none"> - Digital I2S audio interface supports 1 or 2 audio channels for sample rates of 32, 40.275, 44.1 and 48 kHz, and supports 16 bit word-widths - USB(Master For BG310) audio support for 32, 44.1 and 48 kHz,and supports 16 bit word-widths. - Data side-channel allows data to be sent alongside the audio between external host controllers
Features	<ul style="list-style-type: none"> - Built-in audio ADC/DAC - CD-quality uncompressed audio and Very Low-Noise - Audio latency down to 16 ms - Stereo Audio DAC with 100dB SNR and ADC with 93dB SNR - 4.1mW Stereo 48ksps DAC Playback and 6.1mW Stereo 48ksps ADC Record - Stereo Headphone Outputs and Stereo Analog Microphone Inputs - Forward Error Correction - Buffering and Retransmission
Module Size	35 x 20 x 2 mm