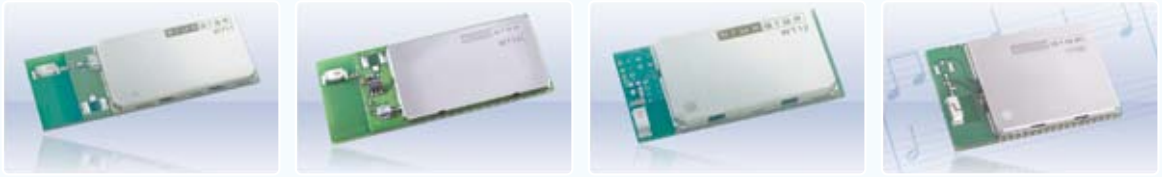
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Bluetooth®



Features	WT11	WT11i	WT12	WT32
***Bluetooth* specification**	2.0 + EDR, 2.1 + EDR	2.0 + EDR, 2.1 + EDR	2.0 + EDR, 2.1 + EDR	2.1 + EDR
***Bluetooth* class**	1	1	2	2
Range, line of sight	250m	250m	40m	40m (80m WT32-E)
Antenna	Internal or U.FL	Internal or U.FL	Internal, PIN	Internal, W.FL, PIN
Temperature range	-40° to +85°	-40° to +85°	-40° to +85°	-30° to +85°
Maximum throughput	2,1Mbps	2,1Mbps	2,1Mbps	2,1Mbps
Integration	Surface mount	Surface mount	Surface mount	Surface mount
Host interfaces	UART, USB, 6xGPIO,1xAIO	UART, USB, 6xGPIO, 1xAIO	UART, USB, 6xGPIO	UART, USB, 10xGPIO, 2xAIO
Audio interfaces	PCM	PCM	PCM	Analog, PCM, SPDIF, I2S
Operating voltage	3.0V- 3.6V	3.0V- 3.6V	2.7V- 3.6V	2.5V- 4.4V
AFH supported	Yes	Yes	Yes	Yes
802.11 co-existence	Yes	Yes	Yes	Yes
Memory	48 KB RAM, 8 MB Flash	48 KB RAM, 8 MB Flash	48 KB RAM, 8 MB Flash	48 KB RAM, 8 MB Flash
Chip	BlueCore-04	BlueCore-04	BlueCore-04	BlueCore-05 Multimedia
Supports Bluelab SDK	Yes	Yes	Yes	Yes
Certifications	*Bluetooth*, CE, FCC, IC and MK	*Bluetooth*, CE, FCC, IC and MIC	*Bluetooth*, CE, FCC and IC	*Bluetooth*, CE, FCC and IC
Ability to host applications	Yes	Yes	Yes	Yes
Firmware options	iWRAP, HCI, Custom	iWRAP, HCI, Custom	iWRAP, HCI, Custom	iWRAP, Custom
Size	35 x 14 x 2,3 mm	35 x 14 x 2,3 mm	26 x 14 x 2,4 mm	24 x 16 x 0,3 mm
Profiles	SPP, DUN, HFP, HSP, HID, AVRCP, DI, PBAP, OPP, FTP, HDP	SPP, DUN, HFP, HSP, HID, AVRCP, DI, PBAP, OPP, FTP, HDP	SPP, DUN, HFP, HSP, HID, AVRCP, DI, PBAP, OPP, FTP, HDP	SPP, DUN, HFP, HSP, HID, AVRCP, DI, PBAP, OPP, FTP, HDP, A2DP

Information Subject to Change

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Bluetooth®





Features	WT21	WT41	BLE112
***Bluetooth* specification**	2.1 + EDR	2.1 + EDR	4.0 Single Mode
***Bluetooth* class**	1	1	2
Range, line of sight	120m	1000m	30 m
Antenna	Internal, PIN	Internal, PIN	Internal, U.FL, RF, PIN
Temperature range	-40° to +85°	-40° to +85°	-40° to +85°
Maximum throughput	2,1Mbps	2,1Mbps	200 kbps
Integration	Surface mount	Surface mount	Surface mount
Host interfaces	UART, CSPI, SDIO, 7xGPIO	UART, USB, 6xGPIO, 1xAI0	UART, USB, SPI, 8 x AIO, 16GPIO
Audio interfaces	I²S + PCM	PCM	-
Operating voltage	1.8V or 2.7V- 4.9V	3.0V- 3.6V	2,0V – 3,6V
AFH supported	Yes	Yes	Yes
802.11 co-existence	Yes	Yes	No
Memory	ROM	48 KB RAM, 8 MB Flash	8 KB RAM, 128 KB Flash
Chip	BlueCore-06	BlueCore-04	TI CC2540
Supports Bluelab SDK	No	Yes	Bluegiga SDK
Certifications	*Bluetooth*, CE, FCC and IC	*Bluetooth*, CE, FCC, IC and MK	*Bluetooth*, CE and FCC
Ability to host applications	No	Yes	Yes
Firmware options	HCI	iWRAP, HCI, Custom	Full *Bluetooth* low energy stack
Size	17,1 x 11,6 x 2,6 mm	35 x 14 x 3,5 mm	18,1 x 12,05 x 2,3 mm
Profiles	HCI over UART, CSPI, SDIO	SPP, DUN, HFP, HSP, HID, AVRCP, DI, PBAP, OPP, FTP, HDP	Custom profiles with BG profile toolkit ™

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