



Features	WT11	WT11i	WT12	WT32
<b>Bluetooth specification</b>	2.0 + EDR, 2.1 + EDR	2.0 + EDR, 2.1 + EDR	2.0 + EDR, 2.1 + EDR	2.1 + EDR
<b>Bluetooth class</b>	1	1	2	2
<b>Range, line of sight</b>	250m	250m	40m	40m (80m WT32-E)
<b>Antenna</b>	Internal or U.FL	Internal or U.FL	Internal, PIN	Internal, W.FL, PIN
<b>Temperature range</b>	-40° to +85°	-40° to +85°	-40° to +85°	-30° to +85°
<b>Maximum throughput</b>	2,1Mbps	2,1Mbps	2,1Mbps	2,1Mbps
<b>Integration</b>	Surface mount	Surface mount	Surface mount	Surface mount
<b>Host interfaces</b>	UART, USB, 6xGPIO, 1xAIO	UART, USB, 6xGPIO, 1xAIO	UART, USB, 6xGPIO	UART, USB, 10xGPIO, 2xAIO
<b>Audio interfaces</b>	PCM	PCM	PCM	Analog, PCM, SPDIF, I2S
<b>Operating voltage</b>	3.0V- 3.6V	3.0V- 3.6V	2.7V- 3.6V	2.5V- 4.4V
<b>AFH supported</b>	Yes	Yes	Yes	Yes
<b>802.11 co-existence</b>	Yes	Yes	Yes	Yes
<b>Memory</b>	48 KB RAM, 8 MB Flash	48 KB RAM, 8 MB Flash	48 KB RAM, 8 MB Flash	48 KB RAM, 8 MB Flash
<b>Chip</b>	BlueCore-04	BlueCore-04	BlueCore-04	BlueCore-05 Multimedia
<b>Supports Bluelab SDK</b>	Yes	Yes	Yes	Yes
<b>Certifications</b>	Bluetooth, CE, FCC, IC and MK	Bluetooth, CE, FCC, IC and MIC	Bluetooth, CE, FCC and IC	Bluetooth, CE, FCC and IC
<b>Ability to host applications</b>	Yes	Yes	Yes	Yes
<b>Firmware options</b>	iWRAP, HCI, Custom	iWRAP, HCI, Custom	iWRAP, HCI, Custom	iWRAP, Custom
<b>Size</b>	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
<b>Profiles</b>	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



Features	WT21	WT41	BLE112
<b>Bluetooth specification</b>	2.1 + EDR	2.1 + EDR	4.0 Single Mode
<b>Bluetooth class</b>	1	1	2
<b>Range, line of sight</b>	120m	1000m	30 m
<b>Antenna</b>	Internal, PIN	Internal, PIN	Internal, U.FL, RF, PIN
<b>Temperature range</b>	-40° to +85°	-40° to +85°	-40° to +85°
<b>Maximum throughput</b>	2,1Mbps	2,1Mbps	200 kbps
<b>Integration</b>	Surface mount	Surface mount	Surface mount
<b>Host interfaces</b>	UART, CSPI, SDIO, 7xGPIO	UART, USB, 6xGPIO, 1xAIO	UART, USB, SPI, 8 x AIO, 16GPIO
<b>Audio interfaces</b>	I <sup>2</sup> S + PCM	PCM	-
<b>Operating voltage</b>	1.8V or 2.7V- 4.9V	3.0V- 3.6V	2,0V – 3,6V
<b>AFH supported</b>	Yes	Yes	Yes
<b>802.11 co-existence</b>	Yes	Yes	No
<b>Memory</b>	ROM	48 KB RAM, 8 MB Flash	8 KB RAM, 128 KB Flash
<b>Chip</b>	BlueCore-06	BlueCore-04	TI CC2540
<b>Supports Bluelab SDK</b>	No	Yes	Bluegiga SDK
<b>Certifications</b>	<i>Bluetooth</i> , CE, FCC and IC	<i>Bluetooth</i> , CE, FCC, IC and MK	<i>Bluetooth</i> , CE and FCC
<b>Ability to host applications</b>	No	Yes	Yes
<b>Firmware options</b>	HCI	iWRAP, HCI, Custom	Full <i>Bluetooth</i> low energy stack
<b>Size</b>	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
<b>Profiles</b>	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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