











## Bluetooth® BR/EDR module comparison chart

	WT12	WT11i	WT41	WT21	WT32
					
<b>Bluetooth</b>					
Version	Bluetooth 2.1 + EDR	Bluetooth 2.1 + EDR	Bluetooth 2.1 + EDR	Bluetooth 2.1 + EDR	Bluetooth 2.1 + EDR
Low energy support	-	-	-	-	-
BR/EDR support	Yes	Yes	Yes	Yes	Yes
<b>Radio</b>					
Typical TX power	+3 dBm	+17 dBm	+ 19 dBm	+ 7 dBm	+7 dBm
Typical RX sensitivity	-83 dBm	-85 dBm	-93 dBm	-88 dBm	- 88 dBm
Class	2	1	1	1.5	1.5
Typical range	30-50m	200-400m	500-1000m	100-200m	30-60m
<b>Antenna options</b>					
Integrated chip	Yes	Yes	Yes	Yes	Yes
Integrated meander line	-	-	-	-	-
U.FL	-	-	Yes	-	Yes (W.FL)
50ohm pin	Yes	Yes	Yes	Yes	Yes
<b>Interfaces</b>					
UART	1	1	1	1	1
USB	2.0 device	2.0 device	2.0 device	-	2.0 device
SPI (debugging)	1	1	1	1	1
GPIO	6 configurable	6 configurable	6 configurable	7	10 configurable
AIO	-	1 x 8-bit	1 x 8-bit	1	2 x 10-bit
<b>Audio Interfaces</b>					
PCM	1	1	1	1	1
I2S	-	-	-	1	1
SPDIF	-	-	-	-	1
Analogue	-	-	-	-	2 inputs/outputs
<b>Microcontroller</b>					
Architecture	16-bit RISC (XAP2)	16-bit RISC (XAP2)	16-bit RISC (XAP2)	16-bit RISC (XAP2)	16-bit RISC (XAP2)
RAM	48 kB	48 kB	48 kB	48 kB	48 kB
Flash	8 Mbit	8 Mbit	8 Mbit	-	8 Mbit
<b>Current consumption</b>					
TX	TBD	TBD	TBD	TBD	TBD
RX	TBD	TBD	TBD	TBD	TBD
Deep Sleep	TBD	TBD	TBD	TBD	TBD
<b>Operating voltage</b>					
Operating voltage	2.6 - 3.6V	2.6 - 3.6V	2.6 - 3.6V	1.8 - 3.6V	1.8 - 3.6V
<b>Copper plated edges</b>					
	No	Yes	Yes	Yes	Yes

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<b>Bluetooth stack features</b>					
Version	2.1 + EDR	2.1 + EDR	2.1 + EDR	2.1 + EDR	2.1 + EDR
Integrated Bluetooth stack	Yes	Yes	Yes	HCI only	Yes
Security Simple Pairing	Yes	Yes	Yes	Stack dependent	Yes
Connections	1-7	1-7	1-7	1-7	1-7
Host API	ASCII commands / HCI	ASCII commands / HCI	ASCII commands / HCI	HCI	ASCII commands
HCI interface	Over UART/USB	Over UART/USB	Over UART/USB	Over UART/SDIO/CSPI	-
<b>Supported profiles</b>					
SPP	Yes	Yes	Yes	-	Yes
OBEX OPP	Yes	Yes	Yes	-	Yes
OBEX FTP	Yes	Yes	Yes	-	Yes
DUN	Yes	Yes	Yes	-	Yes
HID	Yes	Yes	Yes	-	Yes
A2DP	-	-	-	-	Yes
AVRCP	Yes	Yes	Yes	-	Yes
HFP v.1.5	Yes	Yes	Yes	-	Yes
HSP	Yes	Yes	Yes	-	Yes
PBAP	Yes	Yes	Yes	-	Yes
HDP	Yes	Yes	Yes	-	-
DI	Yes	Yes	Yes	-	Yes
Apple iAP support	Yes	Yes	Yes	-	Yes
Over-the-Air configuration*	Yes	Yes	Yes	-	Yes
BGIO*	Yes	Yes	Yes	-	Yes
<b>Software development</b>					
On-board applications	Yes	Yes	Yes	-	Yes
Software development service	Yes	Yes	Yes	-	Yes
SDK/IDE	CSR BlueLab	CSR BlueLab	CSR BlueLab	-	CSR BlueLab
<b>Evaluation kits</b>					
Availability	Now	Now	Now	Now	Now
<b>Production</b>					
Status	Mass Production	Mass Production WT11i-E sampling	Mass Production	Mass Production	Mass Production
<b>Certifications</b>					
Bluetooth	Yes	Yes	Yes	Yes	Yes
CE	Yes	Yes	Yes	Yes	Yes
FCC	Yes	Yes	Yes	Yes	Yes
IC	Yes	Yes	Yes	Yes	Yes
<b>Dimensions</b>					
Dimensions (W x L)					
<b>Bluetooth branding</b>					

\*) Bluegiga proprietary

Updated: Sunday, November 27, 2011