bluegiga

Bluetooth®

Features	WT11	WT12	WT32	WT21	WT41
Bluetooth specification	2.0 + EDR, 2.1 + EDR	2.0 + EDR, 2.1 + EDR	2.1 + EDR	2.1 + EDR	3.0 + EDR
Bluetooth class	1	2	2	1	1
Range, line of sight	250m	40m	40m (80m WT32-E)	120m	1000m
Antenna	Internal or U.FL	Internal, PIN	Internal, W.FL, PIN	Internal, PIN	Internal U.FL, PIN
Temperature range	-40° to +85°	-40° to +85°	-30° to +85°	-40° to +85°	-40° to +85°
Maximum troughput	2,1Mbps/600 Kbps	2,1Mbps/600 Kbps	2,1Mbps/ 600 Kbps	2,1Mbps	2,1Mbps
Integration	Surface mount	Surface mount	Surface mount	Surface mount	Surface mount
Host interfaces	UART, USB, 6xGPIO,1xAIO	UART, USB, 6xGPIO	UART, USB, 10xGPIO, 2xAIO	UART, CSPI, SDIO, 7xGPIO	UART, USB, 6xGPIO, 1xAI0
Audio interfaces	PCM	PCM	Analog, PCM, SPDIF, I2S	I²S + PCM	PCM
Operating voltage	3.0V- 3.6V	2.7V- 3.6V	2.5V- 4.4V	1.8V or 2.7V- 4.9V	3.0V- 3.6V
AFH supported	Yes	Yes	Yes	Yes	Yes
802.11 co-existence	Yes	Yes	Yes	Yes	Yes
Memory	48KB RAM, 8MB Flash	48KB RAM, 8MB Flash	48KB RAM, 8MB Flash	ROM	48KB RAM, 8MB Flash
Chip	BlueCore-04	BlueCore-04	BlueCore-05 Multimedia	BlueCore-06	BlueCore-04
Supports Bluelab SDK	Yes	Yes	Yes	No	Yes
Certifications	*Bluetooth*, CE, FCC, IC, Japan and Korea	*Bluetooth*, CE, FCC and IC	*Bluetooth*, CE, FCC and IC	*Bluetooth*, CE, FCC and IC	*Bluetooth*, CE, FCC and IC
Ability to host applications	Yes	Yes	Yes	No	Yes
Firmware options	iWRAP, HCI, Custom	iWRAP, HCI, Custom	iWRAP, Custom	HCI	iWRAP, HCI, Custom
Size	35 x 14 x 2,3mm	26 x 14 x 2,4mm	24 x 16 x 0,3mm	17,1 x 11,6 x 2,6mm	35 x 14 x 3,5mm
Profiles	SPP, DUN, HFP, HSP, HID, AVCRCP, DI, PBAP, OPP, FTP, HDP	SPP, DUN, HFP, HSP, HID, AVCRCP, DI, PBAP, OPP, FTP, HDP	SPP, DUN, HFP, HSP, HID, AVCRCP, DI, PBAP, OPP, FTP, HDP, A2DP	HCI over UART, CSPI, SDIO	SPP, DUN, HFP, HSP, HID, AVCRCP, DI, PBAP, OPP, FTP, HDP

bluegiga
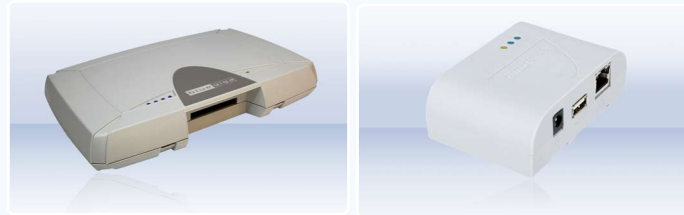
Bluetooth®

Features	AS 2291/2292/2293	AP3201
Bluetooth specification	2.0/2.1 + EDR	2.0/2.1 + EDR
Bluetooth class	1 (Configurable for Class 2)	1 (Configurable for Class 2)
Range, line of sight	200m	200m
Number of connections	Up to 21	Up to 7
Antenna	Internal or external	Internal or external
Temperature range	0° to +60°	0° to +60°
Maximum troughput	2,1Mbps	2,1Mbps
Integration	Housed or OEM in PCB form	Housed or OEM in PCB form
Interfaces	ETH, CF, USB, RS-232, 14GPIO	ETH, USB
DC input	9-24 VDC	9-24 VDC
AFH supported	Yes	Yes
Network management	BSM, web interface, SSH	BSM, web interface, SSH
Memory*)	32MB RAM, 32MB Flash	32MB RAM, 16MB Flash
Bluetooth module	Bluegiga WT11-A/E	Bluegiga WT11-A/E
Certifications	*Bluetooth*, CE, FCC and IC	*Bluetooth*, CE, FCC and IC
Ability to host applications	Yes	Yes
Operating system	Linux	Linux
Weight	364 g	74 g
Size	220x150x30mm	90x59x30mm
Profiles	SPP, OBEX OPP, OBEX FTP, PAN, LAN Access, DI, HDP	SPP, OBEX OPP, OBEX FTP, PAN, LAN Access, DI, HDP

*) Extendable to GBs

Bluegiga Solution Manager (BSM)

Bluegiga Solution Manager (BSM) is a web-based remote management and monitoring platform for Bluegiga Access Servers. By using BSM, you can simultaneously upgrade, monitor and configure a large number of Bluegiga Access Servers, instead of configuring each device one-by-one.

▷ Provides remote management of Bluegiga Access Servers

▷ Enables managing the *Bluetooth* marketing applications (ObexSender)

▷ Simple graphical user interface

▷ Can be used over LAN, GPRS, or any other Internet connection type

▷ Communicates by using secure, encrypted network protocols

▷ Works seamlessly through firewalls

▷ Enables remote upgrades of Bluegiga Access Server software and content

▷ Available APIs enable complete look and feel customization

▷ User permissions can be tailored to provide different levels of user accounts