

## Bluegiga Access Server™



### Key Features

- ▶ Enables *Bluetooth*® networking between multiple devices and networks
- ▶ Serves up to 21 simultaneous *Bluetooth* connections with latest *Bluetooth* 2.0+ EDR standard(3Mbps)
- ▶ Supports all key communication standards:
  - *Bluetooth* Class 1 - 2
  - Ethernet (100Mbps)
  - Wi-Fi, GSMGPRS via external CF card
  - USB, RS232 and GPIO
- ▶ On Board 32MB RAM + 32MB Flash
- ▶ Offers an open platform for adding local applications (SDK available)
- ▶ All relevant *Bluetooth* profiles and APIs supported
- ▶ +200 meter *Bluetooth* range / Software configurable to support 10 meter range only
- ▶ DHCP Support for plug n' play installation
- ▶ Available with integrated and external antenna versions

### Description

Bluegiga Access Servers are widely used from mission critical applications to high-volume marketing applications. Bluegiga Access Servers support multiple communication standards including Ethernet, Wi-Fi, and GSM/GPRS enabling full media-independent TCP/IP connectivity. Bluegiga Access Servers are easy to deploy and manage in existing wired and wireless networks without compromising reliability, speed or security. The device can be conveniently managed and remotely upgraded over encrypted links using Bluegiga Solution Manager Software.

Bluegiga Access Server™ is targeted at system integrators and original equipment manufacturers that want to deploy a secure, cost efficient, low power consumption and up to 100-meter range wireless network for *Bluetooth*-equipped devices. These devices include products such as barcode readers, pay-terminals, medical instruments, special purpose PDAs and mobile phones, and telemetry and machine-to-machine units.

Available with an optional mounting accessory, Bluegiga Access Server™ can be fixed on walls and ceiling safely.

### Applications

- *Bluetooth* marketing
- Point-of-sale systems
- Logistics and transportation systems
- *Bluetooth*-to-TCP/IP networking
- Telemetry and machine-to-machine systems
- Medical and healthcare systems
- Fitness and sport telemetry systems
- Cable replacement
- Network access point
- Content and application distribution to mobile phones and PDAs



## Technical Details



### Networking

- *Bluetooth* version 2.0 + EDR and 1.2 compliant
- RFCOMM, HCI, L2CAP, SDP, LAP, SPP, PAN, ObjP and FTP
- Point-to-Point, Point-to-Multipoint, Piconet and Scatternet
- Class 1, up to 100 meters. Software configurable to support Class 2, up to 10 meters
- Full TCP/IP support
- Transparent router or bridge
- With optional compact flash card WiFi 802.11b or GSM and GPRS
- Remote management and monitoring software

### Software

- Bluegiga software
- iWRAP™ simple command interface
- Linux operating system
- *Bluetooth*, HTTP, FTP, and Telnet servers
- SPP-over-IP
- SSH® client and server
- DHCP client and server
- WRAP SMS Gateway
- Several configuration and application samples
- Obexsender marketing application

### Hardware

- 1 or 3 *Bluetooth* class 1 radios
- Processing power for customer applications
- Memory: 32MB RAM, 32MB flash
- Real time clock, battery backup
- Operating temperature 0 to +55° C
- Watchdog

### Interfaces/Connectors

- Ethernet 10/100 Mbps, RJ-45
- Compact flash card slot (for WiFi and GSM/GPRS)
- USB
- Serial port, RS-232, D9
- Power input, 9-24 VDC, 400 mA
- 14 x Buffered digital I/O (3,3V to 5,5V)
- LEDs and Buzzer

### Application Development with Optional Software Development Kit

- Development environment for Linux
- C and C++ supported
- Sample applications included
- Documentation

### Mechanical Details

- Size: 220x150x40 mm
- Weight: 450g

### Product Codes

- 7 *Bluetooth* connections (2291)
  - 2291; 1 *Bluetooth* radio, 56-bit BT encryption
  - 2291-128; 1 *Bluetooth* radio, 128-bit BT encryption
- 21 *Bluetooth* connections (2293)
  - 2293; 3 *Bluetooth* radios, 56-bit BT encryption
  - 2293-128; 3 *Bluetooth* radios, 128-bit BT encryption
- Accessories
  - 229X-M; Mounting Accessory
  - 2290-GPRS; GPRS/GSM card for CF Interface
  - 2290-WLAN; WLAN 802.11b card for CF interface
  - 2293/ OutD;
  - 2291/ OutD; Outdoor Installation Kit
- Development
  - W9SDK; WRAP 2293 Access Server with SDK
  - W9SWCD; WRAP SDK software CD

### Certifications

- *Bluetooth*
- CE and FCC

### Bluegiga Access Server™ Deliverables

- Bluegiga Access Server™
- Power adapter
- RS-232 Cable
- Quick start guide

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