

VIS-DPB1 Bluetooth Base Station for Nameplates Datasheet V1.1



1. Product Overview



The VIS-DPB1 Bluetooth Gateway is a hardware product developed by our company to support conference equipment management and IoT data interaction. It emphasizes stability and compatibility. Powered by a 580MHz MIPS processor, 64MB DDR2 RAM, and 16MB flash storage, it supports BLE 4.2 and BLE 5.0 (excluding long-range transmission). The device connects seamlessly to BLE terminals like smart nameplates, Bluetooth watches, asset tags, and employee cards, enabling efficient data collection, real-time bidirectional transmission, and remote control. It is suitable for applications in conference systems, healthcare, industrial monitoring, fitness, and commercial services, offering reliable hardware support for IoT systems.

2. Features

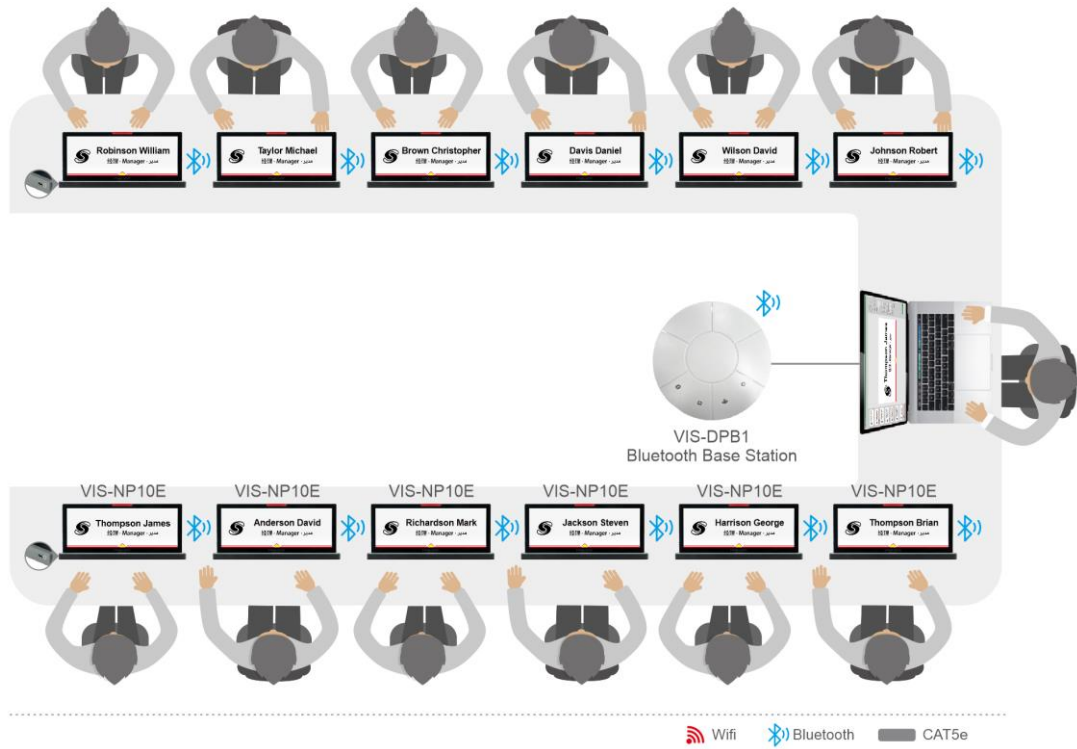
- Scans BLE signals from Bluetooth devices such as nameplates, watches, asset tags, and employee cards ,etc.
- Connect to up to 20 BLE devices, 8 devices when using basic firmware.
- Compatible with BLE 4.2/5.0 (excluding BLE 5.0 long-range transmission feature). Wi-Fi supports IEEE 802.11b/g/n.
- Integrates Bluetooth power/low-noise amplification module, with a scan range of up to 100m and connection distance of up to 50m.
- Supports Ethernet, Wi-Fi, and optional 4G connectivity.
- Connect to servers using TCP, UDP, or MQTT protocols.
- Compatible with JSON and hexadecimal data formats.

- Supports firmware upgrades via web and remote upgrade options.
- Multiple power options: PoE and wide-voltage power adapters.
- Product certified by SRRC.

3. Performance Parameters

Model	VIS-DPB1
Power	12V/1A
PoE Power Supply	48V, compliant with IEEE 802.3at (Class 1)
Operating Current	280mA@12V
Temperature	-20°C~70°C
Interfaces	WAN/LAN adaptive Ethernet port, power socket, reset button
Indicators	Power, Wi-Fi, Ethernet, Bluetooth
Bluetooth Protocol	BLE 4.1/5.0 (excluding BLE 5.0 Long Range)
Wi-Fi Protocol	IEEE802.11b/g/n
4G Protocol	LTE-TDD, LTE-FDD, TD-SCDMA, UMTS, EVDO, EDGE, GPRS, GSM, CDMA
Certifications	SRRC, CE
Dimensions	Diameter: 124mm; Height: 40mm
Color	White

4. System Diagram



About VISSONIC Electronics Limited

Our mission is to develop and manufacture the most comprehensive and innovative audio visual products for our clients. We provide the best performance/price ratio products because it could give you satisfaction just from the time you use them, we believe the good design with cutting edge technology on products will provide value to all our partners and end users. Listen to your demands, we fulfill it.

The logo for VISSONIC features the word "VISSONIC" in a bold, italicized, black sans-serif font. The letter "S" is uniquely stylized, with a green circular element that overlaps the top and bottom curves of the letter, creating a sense of motion or a signal.

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