



### Ideal for:







**Public Places** 











## **OVERVIEW**

BWB2101 wireless bridge is a high-performance, high-stability 2.4GHz multipurpose wireless transmission product developed by BORN. The wireless transmission rate is up to 300Mbps, and the built-in 8dBi high-gain directional antenna is adopted, so that the distance between receiving and transmitting can reach 1KM. BWB2101 wireless bridge supports relay, which can realize longdistance wireless signal transmission, in addition, it also supports gateway and AP functions, which is suitable for wireless networking and wireless coverage. It adopts dust-proof, waterproof, and lightning-proof housing and antenna, which can work stably for a long time in various outdoor environments. It supports DC12V power supply/48V POE main/standby dual power supply and remote reset functions for easy management. It can realize point-to-point, point-to-multi-point, and outdoor wireless coverage and other applications to meet the wireless transmission coverage requirements of elevator monitoring, rural areas, factory districts, scenic spots, squares, and other indoor and outdoor environments.

## **FEATURES**

### 1. High gain antenna, 300M high-speed transmission

- Adopt 802.11n MIMO wireless technology, provide 300Mbps wireless transmission rate.
- Built-in high gain dual-polarized antenna, the signal is stronger and the transmission is farther.

### 2. Engineering-level hardware design, professional outdoor transmission

- Qualcomm high-performance enterprise-level chips, industrial-grade materials, high-speed and stable
- anti-interference, meet the needs of various installation environments.
- Industrial-grade integrated molding shell, with IP61 dustproof, waterproof, adaptable to various harsh
- environments such as wind and sun, rain, snow, and freezing, and can work normally and stably even in
- extremely high and low-temperature environments (-40°C~70°C).

### 3. Easy to install and easy to maintain

- The factory settings are free of matching. Support one-key guick digital pairing, easy and efficient.
- Support point-to-point, point-to-multi-point data transmission, centralized management.
- The installation is simple and convenient, and the signal strength is intelligently indicated.





# TECHNICAL SPECIFICATION

Model		BWB2101		
Interface Characteristics				
Fixed Port		1*10/100M 48V PoE PD port(Data/Power) 1*DC5521 12VDC power port		
Ethernet Port	10/100Base-TX auto-sen	sing,Full/half duplex MDI/MDI-X	self-adaption	
Twisted Pair Transmission	on 10BASE-T: Cat3,4,5 UTF 100BASE-TX: Cat5 or lat	· ·		
Chip Parameter				
Chip	AR9531, 650MHz			
Network Protocol	IEEE802.3u 100Base-TX	x, IEEE802.11b/g/n		
DDR2 Memory	64MB			
Flash	8MB			
RF Design	Dual-stream single freque	ency, 2T2R 300M MIMO technol	ogy	
Working Frequency	2.4~2.4835GHz,802.11b/	2.4~2.4835GHz,802.11b/g/n		
Transmit Power	18dBi			
Antenna Type	Built-in dual-polarization gain 8dBi	Built-in dual-polarization directional antenna, horizontal 60 degrees, vertical 30 degrees, gain 8dBi		
Transmission Rate	300Mbps			
Wireless Transmission Dist	tance 1km(Max)			
LED Indicator	System: SYS (green), ne	twork: NET (green), signal indica	ator: (green)	
Reset Switch	Yes, Press for 20 second	s and release to restore factory	settings	
	RF P	arameter		
Modulation Mode	OFDM=BPSK,QPSK, 16-QAM,	64-QAM		
	802.11n(2.4GHz)	802.11g	802.11b	
	-90dBm @ MCS0	- 90dBm @ 6Mbps	- 95dBm @ 1Mbps	
Receiving Sensitivity	-70dBm @ MCS7	- 72dBm @ 54Mbps	- 90dBm @ 11Mbps	
	-90dBm @ MCS8			
	-68dBm @ MCS15			





	802.11n(2.4GHz) (±1.5dBm)	802.11g(±1.5dBm)	802.11b(±1.5dBm)
	14dBm@ MCS0~2/MCS8~10	18dBm @ 6~24Mbps	18dBm @1~11Mbps
	14dBm @ MCS3/MCS11	18dBm @ 36Mbps	
Transmit Power	14dBm @ MCS4/MCS12	16dBm @ 48Mbps	
	14dBm @ MCS5/MCS13	16dBm @ 54Mbps	
	14dBm @ MCS6/MCS14		
	14dBm @ MCS7/MCS15		

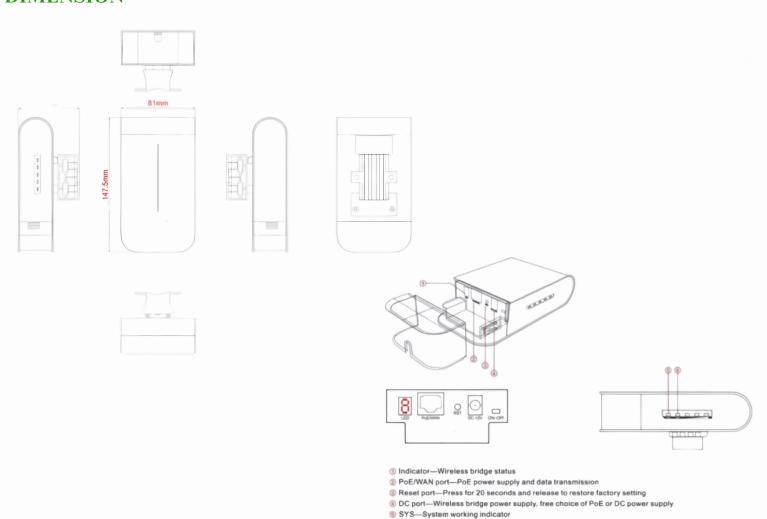
Power				
Power Supply Mode/ Input Voltage	12VDC or 48V Passive PoE power supply			
Power Consumption	Standby<3W,Full Load≤5W			
Power Supply	Wall-mounted style 48VDC PoE power supply. Input AC:100~240V 50-60Hz 0.5A			
Physical Parameter				
Operation TEMP / Humidity	-40~+70°C;5%~90% RH Non condensing			
Storage TEMP / Humidity	-40~+75°C;5%~95% RH Non condensing			
Dimension (L*W*H)	147.5*81*44mm			
Net /Gross Weight	<0.2kg / <1.0kg			
Installation	Pole-mounted, Wall-mounted			
Certification & Warranty				
Lightning protection / protection level	Port lightning protection: 6KV 8/20us; Protection level: IP61			
Warranty	3 years, lifelong maintenance.			
	Software Features			
Operating Mode	Wireless bridge mode or AP mode or universal interrupt mode			
Wireless Set-up	BSSID			
	Automatically select the signal channel			
	Distance control 802.1x ACK time output			
	Multiple SSIDs, Max 4 can be configured			
Wireless Security	Hide SSID			
	WPA/WPA2 (WPA-EAP uses TKIP)			
	WPA/WPA2 (WPA-PSK uses TKIP or AES)			
	WEP, 64/128/152 bit WEP security password			





System Set-up	WEB configuration (HTTP/remote login)
Software Upgrade	WEB webpage or TFTP to upgrade the software
User Management	Configurable user and password
System Monitoring	Equipment and network status statistics
Log	Local log, host log, file transfer log
Restore Set-up	Restore factory default set-up
Backup Function	Back up the system configuration and restore the user's configuration when needed

# **DIMENSION**



NET—Network working indicator





## **ORDERING INFORMATION**

Model	Description	Recommended Power Supply
BWB2101	2.4G/300Mbps PoE wireless bridge can support 1*10/100M 48VDC passive PoE power supply, transmission distance 1km, pole-mounted installation	48VDC POE power supply

Note: The wireless bridge does not include 48VDC POE power supply and needs to be purchased separately.

# **PACKING LIST**

PACKING LIST	Content	Qty	Unit
	2.4G/300Mbps PoE wireless bridge	1	Pair
	Double head RJ45 network cable	2	PC
	Hanging ear and stainless steel band	1	Pair
	User Guide	1	SET









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