

# **TB2I**

802.11 b/g/n high-performance bridge for elevator application



**TDMA** 



Intelligent Rate Control



ACK Time-out Adjustment



2x2 MiMo



High Throughput



Point-to-point



Hardware Watchdog



POE+

#### Release Notes

Date	Version Number	Editor	Change log	Remarks
2020-04-16	V1.0	Guifang	Create	
2020-11-19	V1.1	Guifang	Modify power	
			consumption	

#### **Product Feature**

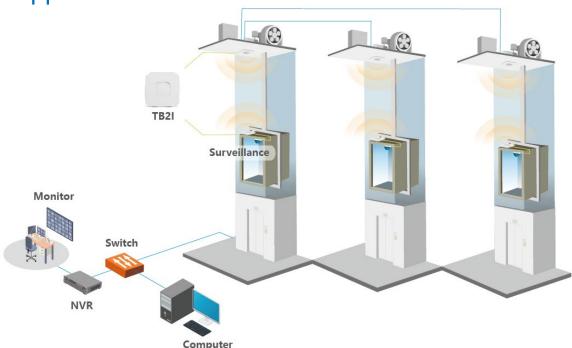
- Supports 802.11 b/g/n standard
- The highest transmission rate is 300Mbps
- Indoor transmission distance: 0~500m
- Integrated antenna, quick installation
- Built-in VTrans technology, including
  - 1) TDMA: eliminate the performance degradation caused by hidden terminals and maximize the wireless transmission efficiency
  - 2) Frequency (channel) expansion function: eliminate interference caused by the same frequency and adjacent frequency through more frequency selection
  - 3) Band width selection: by adjusting the channel width, the overlapping parts of spectrum can be avoided and the influence of interference by other channels can be reduced
  - 4) AutoAck function: intelligently calculate the ACK value required for long-distance transmission to achieve the optimal performance at this distance
- Supports bridge and router modes, Network architecture can be flexibly deployed by adjusting the network mode of devices
- Intelligent QoS wireless multimedia optimization technology, providing high priority transmission levels for voice and video
- Supports web page management, making installation and maintenance of equipment more convenient
- Supports wireless controller (AC) management, realize remote centralized configuration and upgrade management
- Supports 802.3at protocol (POE+)
- IP41

### **Accessory List**

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Sender	Receiver	Mount Bracketx2	In wall POE adaptor X2	Zip tiesX4	QIG	QC

<sup>\*</sup>Wireless controller needs to be purchased separately

**Application Scenario** 



## **Specifications**

Openications -				
	Dimensions(mm)	150x150x36mm		
	Weight(kg)	0.2kg		
	Installation	Clamp or cable tie		
	Protection Level	IP41		
	Antenna Gain	8dBi		
	Beam Width	H: 65°, V: 60°		
	Power Supply	48V POE+/DC 12V		
Hardware	Max Power Consumption(W)	4W		
пагимаге	CPU	QCA9531		
	DDR & Memory	64MB DRAM,8MB Flash		
	Physical Interface	3*10/100Mbps		
	Indicator Light	3* Signal strength indicator		
	Maximum Transmitted Power	27dBm		
	Working Temperature	-20°C~55°C		
	Storage Temperature	-40°C~85°C		
	Working Humidity	5%~95%RH Non-condensing		

	Surge	POE/GE: CM 4KV , DM 2KV			
	ESD Protection	Contact 6KV , Air 8KV			
Software	Protocol	802.11b/g/n			
		2412~2472MHz (China)			
		2412~2462MHz (United States)			
	Frequency	2412~2472MHz (Most countries)			
		Supported frequency range: 2312~2732MHz (should			
		depend on the local regulation.)			
		* The above frequencies need specific version support			
	Operating Mode	AP, Station, WDS AP, WDS Station			
	Security	WPA2-PSK, Hidden SSID, IP/MAC Filtering			
	Network Mode	Bridge/ Router			
	Management	Support Web/AC/SNMP			
	Other	Timed restart, Support VLAN, QoS, Watchdog			

# **RF** Specification

TX Power			Sensitivity			
	Date Rate	Avg. TX	Tolerance	Date Rate	Sensitivity	Tolerance
11b/g/n	1 Mbps	24dBm	+/- 2dBm	1 Mbps	-96dBm	+/- 2dBm
	11 Mbps	24dBm	+/- 2dBm	11 Mbps	-90dBm	+/- 2dBm
	6 Mbps	24dBm	+/- 2dBm	6 Mbps	-91dBm	+/- 2dBm
	54 Mbps	21dBm	+/- 2dBm	54 Mbps	-76dBm	+/- 2dBm
	HT20 MCS0(combination)	27dBm	+/- 2dBm	HT20 MCS0	-91dBm	+/- 2dBm
	HT20 MCS7(combination)	23dBm	+/- 2dBm	HT20 MCS7	-73dBm	+/- 2dBm
	HT40 MCS0(combination)	27dBm	+/- 2dBm	HT40 MCS0	-88dBm	+/- 2dBm
	HT40 MCS7(combination)	23dBm	+/- 2dBm	HT40 MCS7	-70dBm	+/- 2dBm

<sup>\*</sup> The combined power in the chart above is the result of tested single power plus 3dB

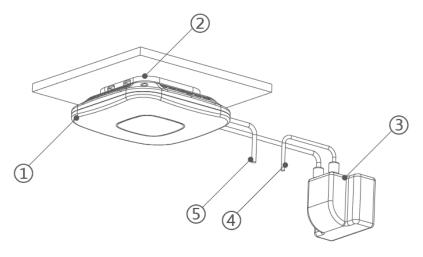
#### **Dimensions**



### Interface



### Installation



- 1. Wireless Transmission Device
- 2. Mounting bracket
- 3. POE Adaptor
- 4. The LAN port of POE adaptor can be connected with the other devices
- 5. The LAN1/LAN2 port on the main device can be connected with the other devices

\*The actual installation height needs to be determined according to the transmission distance and the installation environment, and there is no obstruction between the two points.

## Antenna Polar Plots

