



RoIP Gateway

BW223

BW223 is a RoIP gateway with built-in radio and SIP modules, which enables interconnection between analog/digital two-way radios and SIP communication devices. Small, portable and powerful, BW223 gateway is compatible with mainstream analog/DMR II digital two-way radios and easy to deploy and manage. BW223 helps to build an interconnected communication system without changing the existing analog and digital communication systems. It is suitable for internal communication in different scenarios, such as community security, industrial parks, supermarkets, hospitality, campus security, etc.

Highlights

- ☑ Integrate 400~470 MHz radio modules to connect the analog/DMR II digital radios.
- ☑ Compatible with SIP protocol to connect SIP communication devices.
- ☑ High compatibility with Motorola, Hytera and other mainstream analog/digital radios.
- ☑ Support HD audio with G.722 and Opus.
- ☑ Support USB 2.0 interface and TF card interface for data storage or offline upgrade.
- ☑ Support call recording and call logs of two-way radios and SIP phones.
- ☑ Dual Megabit Ethernet for network transmission.
- ☑ Supports the power supply via DC 12V PSU and PoE (at).
- ☑ Supports the Web management for devices.
- ☑ Support desktop and wall-mounted installation.

Detailed parameters

Generic	Support 1 connection of analog/ DMR II digital radio, 1 connection of SIP call	Network	Dual 10/100 Mbps Ethernet
	Support call recording		IP mode: IPv4/IPv6/IPv4&IPv6
	2 SIP lines		IP configuration: Static IP / DHCP / PPPoE
	Support SIP hotspot		VPN: L2TP / OpenVPN
	Support traditional analog/digital intercom and SIP products (frequency band: 400~470Mhz)		VLAN
Audio	Support SIP standard protocol	Deployment & Maintenance	Auto-provisioning via FTP/TFTP/HTTP/HTTPS/DHCP OPT66/SIP PNP/TR-069
	Wideband codec: G.722, Opus		Web management portal
	Support HD audio Voice activity Detection / with noise reduction		Web-based packet-dump
	Narrowband codec: G.711A/U, G.729A/B, iLBC, G.723.1, G.726-32K		Configuration export / import
Protocols	SIP v1 (RFC2543), v2 (RFC3261) over	Physical Specifications	Firmware upgrade
	RTP/RTCP/SRTP		Syslog
	STUN		Color: black
	DHCP		Physical key: 1 reset key
	IPv6		Indicator lights x3: (status of power, SIP call and radio call)
	PPPoE		DC interface x1: DC 12V/2A
	L2TP		RJ45 interfaces x2: connecting WAN and LAN
	OpenVPN		PoE enabled: Class 4, 802.3at, via WAN interface
	SNTP		TF interface x1: connecting TF card (128G max)
	FTP/TFTP		USB 2.0 interface x1: Standard A, for connecting USB card, recording storage, software upgrade.
	HTTP/HTTPS		Working temperature: -10°C ~ 50°C
TR-069	Storage temperature: -20°C ~ 60°C		
Device Functions	Auto-answering	Working humidity: 10%~95%	
	Speed dials	Installation: Desktop stand / Wall-mounted	
	Network time synchronization	N.W/CTN: 8.8 kg	
	Dynamic multicast function	G.W/CTN: 9.5 kg	
	Blocked call list	Device dimension: 209x126x26.3 mm	
	Call logs (600 pieces for SIP phones/ Radios)	Gift box dimension: 225x202x99 mm	
	Action URL / Active URI	Outer CTN dimension: 424x320x245 mm (10 PCS)	
Radio Specification	Radio frequency: UHF 400~470 MHz		
	Communication distance: 1~3km in urban open area		