



TRILINK

TRILINK Wireless Bridge P2P

2.4GHz Point-to-Point Digital Wireless Bridge

Model No. TL-WB23500

Product Overview

The **TRILINK TL-WB23500 Wireless Bridge** is a high-performance 2.4 GHz point-to-point (PtP) and point-to-multipoint (PtMP) wireless bridge designed for reliable long-distance data transmission in indoor and outdoor environments.

It supports **smart plug-and-play pairing**, allowing devices to automatically connect without the need for computer configuration. With stable wireless performance and an outdoor-rated enclosure, the TL-WB23500 is ideal for **CCTV surveillance, elevator monitoring, parking areas, warehouses, factories, campuses, and building-to-building connectivity**.

Key Features

- Up to 500 m Wireless Transmission Distance (Line-of-Sight)
- Wireless Speed up to 300 Mbps with IEEE 802.11b/g/n
- Supports Point-to-Point (PtP) and Point-to-Multipoint (up to 8 devices)
- Smart Digital Code Pairing – No PC or software required
- Built-in 5 dBi dual-polarized directional antenna
- 24 V Passive PoE and DC 12 V local power supply supported
- IP65 weatherproof enclosure for outdoor deployment
- Wall-mount and pole-mount installation options



Product Appearance

- Compact and lightweight design
- Integrated directional antenna
- Digital display for pairing code
- LED indicators for power, LAN, wireless signal strength

Feature Description

Long-Range Wireless Connectivity

Equipped with a built-in 5 dBi directional antenna, the TL-WB23500 delivers stable wireless transmission up to 500 meters, ideal for environments where cabling is difficult or costly.

Smart Digital Pairing

Pre-configured digital code pairing enables instant PtP or PtMP connection. Simply set the same code on both devices to complete pairing without logging into a web interface.

Flexible Power Supply

Supports 24 V Passive PoE for simplified cabling as well as DC 12 V / 1 A local power input for flexible deployment.

Outdoor-Ready Design

The IP65-rated enclosure provides protection against dust, rain, and sunlight, ensuring reliable operation in harsh outdoor environments.

Specifications

Hardware Specifications

Item	Description
Wireless Standards	IEEE 802.11b/g/n
Frequency Band	2.4 GHz ISM Band (2.400 – 2.4835 GHz)
Wireless Speed	Up to 300 Mbps
Transmission Distance	Up to 500 m (Line-of-Sight)
Chipset	MT7628 Industrial-grade chipset
CPU Frequency	580 MHz
Memory	64 MB DDR2
Flash	8 MB
Antenna	Built-in 5 dBi dual-polarized directional antenna
Ethernet Interface	1 × 10/100 Mbps Adaptive Ethernet Port

Radio Frequency Characteristics

Item	Description
Channels	1 – 13
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM), DSSS
Output Power	Up to 19 dBm (varies by mode)
Receive Sensitivity	Up to -94 dBm

Power Specification

Item	Description
Power Supply	24 V Passive PoE / DC 12 V 1 A
Power Consumption	< 10 W
Adapter Input	AC 100–240 V, 50/60 Hz

Physical Specifications

Item	Description
Dimensions	140 × 78 × 50 mm
Weight	0.13 kg (Single Unit)
Installation	Wall Mount / Pole Mount
Protection Level	IP65 (Outdoor Rated)
Warranty	1 Years

Operating Environment

Item	Description
Operating Temperature	-30 °C to +55 °C
Storage Temperature	-40 °C to +70 °C
Operating Humidity	10% – 90% (Non-condensing)
Storage Humidity	5% – 95% (Non-condensing)

Package Contents

Item	Description
Wireless Bridge Device	2
Power Adapter	2
Mounting Accessories	2 Set
User Manual	1

Product Detail



Application Diagram

