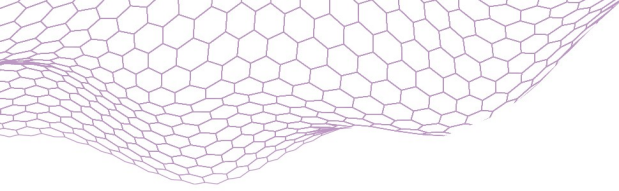




IP65 LONG RANGE WIFI BRIDGE

DDWB SERIES





SYNOPSIS

- THE DDWB HI IS A HIGH-PERFORMANCE 2.4G WIRELESS NETWORK BRIDGE DESIGNED TO PROVIDE RELIABLE, STABLE, AND HIGH-SPEED DATA TRANSMISSION FOR CHALLENGING OUTDOOR AND INDUSTRIAL APPLICATIONS.
- DEVELOPED BY DATABRIDGE DYNAMIC, THIS DEVICE IS IDEAL FOR SCENARIOS REQUIRING ROBUST WIRELESS CONNECTIVITY ACROSS MEDIUM TO SHORT DISTANCES, SUCH AS SCENIC SPOTS, FACTORIES, TOWER CRANES, AND ELEVATOR SYSTEMS.
- BUILT UPON IEEE 802.11 B/G/N STANDARDS, THE DDWB HI ACHIEVES A WIRELESS TRANSMISSION RATE OF UP TO 300MBPS.
- WHAT TRULY SETS IT APART IS ITS UNIQUE PAIRING TECHNOLOGY, WHICH ALLOWS FOR EFFORTLESS POINT-TO-POINT (PTP) AND POINT-TO-MULTIPOINT (PTMP) CONFIGURATIONS (UP TO 8 POINTS) WITHOUT THE NEED FOR COMPLEX COMPUTER SETUP - MAKING DEPLOYMENT REMARKABLY SIMPLE AND QUICK.
- DURABILITY IS A CORNERSTONE OF ITS DESIGN. THE DDWB HI FEATURES AN INDUSTRIAL-GRADE IP65-RATED WATERPROOF AND DUST-PROOF PLASTIC SHELL, ENSURING IT CAN WITHSTAND VARIOUS HARSH OUTDOOR ENVIRONMENTS.
- ITS BUILT-IN HIGH-GAIN 8DBI DIRECTIONAL PLATE ANTENNA NOT ONLY STREAMLINES INSTALLATION BUT ALSO SIGNIFICANTLY ENHANCES WIRELESS TRANSMISSION PERFORMANCE AND STABILITY OVER DISTANCES UP TO 500 METERS.
- THIS ROBUST CONSTRUCTION, COMBINED WITH A WIDE OPERATING TEMPERATURE RANGE OF -30 DEG C TO +55 DEG C, GUARANTEES CONSISTENT OPERATION IN DIVERSE CLIMATES.
- THE DDWB HI OFFERS FLEXIBLE NETWORKING MODES, FUNCTIONING AS EITHER A GATEWAY OR A NETWORK BRIDGE, AND SUPPORTS BOTH MASTER AP AND SLAVE AP ROLES.
- POWERING OPTIONS ARE VERSATILE, SUPPORTING BOTH 12V DC AND POE (POWER OVER ETHERNET), SIMPLIFYING CABLING AND DEPLOYMENT.
- WITH EXTERNAL LED INDICATORS FOR SYSTEM AND WIRELESS STATUS, AN EXTERNAL RESET SWITCH, AND LOCAL MANAGEMENT CAPABILITIES, THIS BRIDGE PROVIDES USER-FRIENDLY OPERATION AND MAINTENANCE. WITH AN IMPRESSIVE MTBF OF 200,000 HOURS, THE DDWB HI PROMISES LONG-TERM RELIABILITY AND PEACE OF MIND.

KEY BENIFITS

- **RAPID DEPLOYMENT & SIMPLICITY:**
UNIQUE AUTO-PAIRING TECHNOLOGY ENABLES QUICK, CONFIGURATION-FREE SETUP FOR PTP AND PTMP LINKS.
- **ROBUST OUTDOOR PERFORMANCE:**
IP65-RATED, DUST-PROOF, AND WATERPROOF DESIGN WITH A WIDE OPERATING TEMPERATURE RANGE ENSURES RESILIENCE IN EXTREME WEATHER.
- **HIGH-SPEED & RANGE:**
DELIVERS UP TO 300MBPS WIRELESS THROUGHPUT AND COVERS DISTANCES UP TO 500 METERS, IDEAL FOR MEDIUM TO SHORT-RANGE VIDEO AND DATA TRANSMISSION.
- **ENHANCED SIGNAL INTEGRITY:**
INTEGRATED 8DBI DIRECTIONAL ANTENNA ENSURES STRONG SIGNAL PENETRATION AND RECEPTION, BOOSTING TRANSMISSION STABILITY.
- **FLEXIBLE & VERSATILE:**
SUPPORTS VARIOUS NETWORKING MODES (GATEWAY, BRIDGE, MASTER/SLAVE AP) AND POWER OPTIONS (DC/POE) FOR DIVERSE APPLICATION NEEDS.
- **RELIABILITY & LONGEVITY:**
EXCEPTIONAL MTBF AND A SOLID 2-YEAR WARRANTY UNDERLINE ITS DEPENDABLE, LONG-TERM OPERATIONAL CAPABILITIES.

TECHNICAL SPECIFICATIONS

Wireless technology	2.4G:300M 802. lib/g/n MIMO technology
Operating mode	The transmitting end The Receiving end
RAM	8MB DDR3 RAM
Flash	1MB Flash
LED Indicators	8 groups, from top to bottom are signal indicator*4, LAN1, LAN2, system light, power light
Working frequency	2.4G frequency
Transmission rate	300Mbps
Wireless power	817dBm
Data modulation method	11b: CCK, QPSK, BPSK lig: OFDM lln: QPSK, BPSK, 16-QAM, 64-QAM
Maximum transmission distance	500meters
Antenna	Built-in high gain 8dBi directional plate antenna Horizontal angle: 60' , vertical angle 60'
Networking Interfaces	2x10/100 Mbps adaptive network interface
On/ Off/ Restart switch	1 reset button, long press for 5 seconds to restore factory settings, short press the digital tube value to increase by 1
Operating Temperature	-30 Deg C to +55 Deg C Humidity (Non-condensing) : ~90%
Storage Temperature	-40 Deg C to +70 Deg C
Power Method	24V IA Non-standard POE power supply. DC 12V 1A
Power consumption	< 10W
Protection level	IP65
Weight	0.4Kg
Installation method	Pole installation
Operating mode	Master/Slave mode (Dial code conversion)
Wireless function	SSID broadcast/hide support Chinese SSID Wireless encryption: WPA, WPA2s WPA-PSK, WPA2-PSK Transmit power setting: support IdBm linear adjustment WDS function Qos: WMM Support digital quick pairing function

Networking mode:	point-to-point point to multi-point (within 8 points)
Management method	Local WEB management Remote management
Network mode	Network Bridge: static IP/dynamic acquisition Gateway: static IP/dynamic acquisition/PPPoE
Wireless Bridge management	Support local/cloud centralized management, real-time remote maintenance
Wireless management	Network Bridge configuration/advanced configuration/WiFi settings
Distance	Support distance detection
Other functions	Time zone time configuration, login password modification, backup/restore, restart/timed restart
RF characteristics	
Frequency Range	ISM band: 2.300GHz 2.4835GHz
Receiving sensitivity	1.1b: -85dbm@11Mbps, -94dbm@1Mbps llg: -72dbm@54Mbps, -88dbm@6Mbps -88dbm@MCSO
Working frequency	1. 2, 3, 44 5. 6, 7, 84 10. 11. 12. 13
Channel distribution	2.4G: 1, 2, 3, 4s 5, 6, 7, 8, 9, 10. 11. 12. 13, 32, 33, 37, 38, 43
EVM	802.11m <-28 DB 802.11g: <-25 DB 802.11b: <-10 DB
Frequency deviation	± 20ppm

ORDERING CODE

DDWB X HI

DDWB	Databridge Dynamic Ip65 WiFi Bridge
X	T: Transmitter R: Receiver
Hi	Fixed