

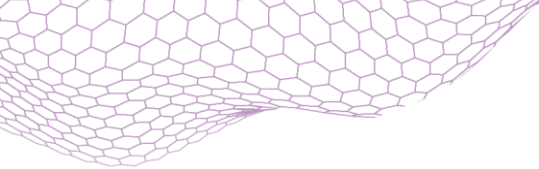


COMPACT 2.4G/5.5G ROUTER

DDWB AP Hi SERIES



DATA BRIDGE
DYNAMIC



SYNOPSIS

- THE DDWB 595N AP Hi IS AN OUTDOOR ACCESS POINT USING THE 802.11AC AP NETWORK STANDARD, OPERATING IN THE 2.4G /5.8G ISM WIRELESS AP BAND.
- IT CAN MEET THE NEEDS OF 64 CONCURRENT WIRELESS HIGH-SPEED INTERNET ACCESS.
- THE 100MBPS NETWORK INTERFACE SUPPORTS BOTH 24V POE REMOTE POWER SUPPLY AND 12V DC LOCAL POWER SUPPLY.
- IN 2.4G 802.11N MODE, IT DELIVERS UP TO 300MBPS, 5.8G, WHILE IN 802.11AC MODE, THE MAXIMUM TRANSMISSION RATE REACHES 867MBPS, WITH THE ENTIRE DEVICE ACHIEVING A WIRELESS SPEED OF 1200MBPS.
- FEATURING HIGH PERFORMANCE, HIGH POWER, HIGH GAIN, HIGH RECEPTION SENSITIVITY, HIGH BANDWIDTH, AND LOW LATENCY, THIS SOLUTION NOT ONLY COVERS LARGER AREAS BUT ALSO ENSURES SUPERIOR WIRELESS TRANSMISSION PERFORMANCE AND STABILITY.
- WITH IP65-RATED WEATHERPROOF DESIGN OFFERING WINDPROOF, WATERPROOF, DUSTPROOF, AND UV-RESISTANT PROTECTION, THIS DEVICE EFFORTLESSLY ADAPTS TO EXTREME OUTDOOR CONDITIONS.
- FEATURING TWO 5DBI OMNIDIRECTIONAL OUTDOOR ANTENNAS, IT SUPPORTS POLE-MOUNTED AND WALL-MOUNTED INSTALLATIONS, ENABLING SEAMLESS WIRELESS DEPLOYMENT IN OUTDOOR ENVIRONMENTS.

SYNOPSIS

- MEDIATEK'S COST-EFFECTIVE WIRELESS CHIP, INDUSTRIAL STANDARD CIRCUIT + HIGH AND LOW TEMPERATURE RESISTANT DESIGN.
- ENHANCED HEAT SINK + AIR FLOW OPTIMIZATION, NO POWER FAILURE DUE TO HEAT IN HOT SUMMER, ENSURES REAL-TIME, LONG-TERM, STABLE AND EFFICIENT TRANSMISSION OF USER NETWORK DATA.
- SUPPORTS 802.11A/B/G/N/AC PROTOCOL, CAN PROVIDE 2.4G 300MBPS+5G 867MBPS WIRELESS ACCESS SPEED, THE WHOLE DEVICE CAN PROVIDE 1200MBPS WIRELESS ACCESS SPEED
- EXTERNAL PROFESSIONAL INDEPENDENT WIFI RF AMPLIFICATION CHIP, TO ENSURE WIDER SIGNAL COVERAGE EFFECT, HIGHER SPEED, LONGER TRANSMISSION
- SUPPORTS 24V POE REMOTE POWER SUPPLY AND 12V/1A LOCAL DC POWER SUPPLY.
- EXTERNAL SMA STANDARD CONNECTOR, OUTDOOR 5DBI GLUE PACKED, OMNIDIRECTIONAL ANTENNA
- WALL/POLE INSTALLATION

TECHNICAL SPECIFICATIONS

HARDWARE SPECIFICATIONS

Master chip	MT7628AN+MT7613BEN
Dominant Frequency	580MHz
Memory	128MB
Flash Memory	16MB
Technology	802.11b/g/n 2T2R MIMO technology (theoretical maximum rate up to 300Mbps) 802.11a/n/ac 2T2R MIMO technology (theoretical maximum rate up to 867Mbps)
Device Interface	WAN PoE*1/LAN*1 10/100Mbps Auto negotiate
Antenna	External 2.4G/5.8G Dual-band 5dBi outdoor omnidirectional rubber antenna *2RP-SMA connector*2
Reset	Reset the button to restore factory Settings. Press and hold for 6 seconds to restore factory Settings
Indicator LED's	Power supply, LAN/WAN, LAN. WLAN*4

ACCESS POINT SPECIFICATION

Frequency Range	2.4G: 2.4 to 2.4835GHz 5G: UNII-1: 5.15 to 5.35GHz UNII-2: 5.47 to 5.725GHz UNII-3: 5.725 to 5.825GHz
Channel Distribution	2.4G: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13 5G: 36. 40. 44. 48. 52. 60. 64. 149. 153. 157. 161. 165
Modulation Mode	802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 64-QAM, 256-QAM)
Transmission Speed	11b maximum 11Mbps 11g maximum 54Mbps 11n maximum 300Mbps 11ac maximum 867Mbps
Receiver Sensitivity	2.4G: 11b: $< -90 \pm 1.5 \text{ dBm}$ @1Mbps, $< -84 \pm 1.5 \text{ dBm}$ @11Mbps 11g: $< -86 \pm 1.5 \text{ dBm}$ @6Mbps, $< -69 \pm 1.5 \text{ dBm}$ @54Mbps 11n 20MHz: $< -85 \pm 1.5 \text{ dBm}$ @MCS0, $< -67 \pm 1.5 \text{ dBm}$ @MCS7 11n 40MHz: $< -82 \pm 1.5 \text{ dBm}$ @MCS0, $< -64 \pm 1.5 \text{ dBm}$ @MCS7

Receiver Sensitivity

5G:

11a: $< -86 \pm 1.5 \text{ dBm}$ @6Mbps, $< -69 \pm 1.5 \text{ dBm}$ @54Mbps

11n 20MHz: $< -85 \pm 1.5 \text{ dBm}$ @MCS0, $< -67 \pm 1.5 \text{ dBm}$ @MCS7

11n 40MHz: $< -82 \pm 1.5 \text{ dBm}$ @MCS0, $< -64 \pm 1.5 \text{ dBm}$ @MCS7

11ac 20MHz: $< -84 \pm 1.5 \text{ dBm}$ @MCS0, $< -59 \pm 1.5 \text{ dBm}$ @MCS8

11ac 40MHz: $< -82 \pm 1.5 \text{ dBm}$ @MCS0, $< -56 \pm 1.5 \text{ dBm}$ @MCS9

11ac 80MHz: $< -78 \pm 1.5 \text{ dBm}$ @MCS0, $< -52 \pm 1.5 \text{ dBm}$ @MCS9

Transmit Power

11b: $27 \text{ dBm} \pm 1.5 \text{ dBm}$ @11Mbps

11g: $27 \text{ dBm} \pm 1.5 \text{ dBm}$ @54Mbps

11n(20/40MHz): $27 \text{ dBm} \pm 1.5 \text{ dBm}$ @MCS7

11ac(40/80MHz): $27 \text{ dBm} \pm 1.5 \text{ dBm}$ @MCS9

SOFTWARE FUNCTION

Working Mode

AP mode/Routing mode/MESH mode

Load Capacity

64 connections

Management Mode

WEB remote management

Status

System status, wireless status, real-time traffic

Network Configuration

DHCP/Static IP/PPPOE

Configuration

Wireless switch, SSID, encryption mode, wireless password, wireless multimedia, terminal isolation, hidden wireless

System Management

Device name, system upgrade, configuration recovery, backup configuration, restore factory, restart device

Advanced Configuration

Radio configuration, multi-wire configuration, timing switch, Ping watchdog, timed restart, password modification, time management, diagnosis

POWER

Input Power

24V/0.5A PoE power supply,
DC 12V/1A

Power Connector

DC power interface, suitable for power plug with outer diameter 5.5mm. Inner diameter 2.1mm and length of more than 9.5mm

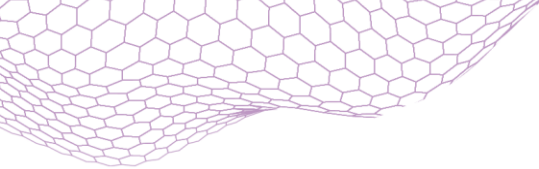
PHYSICAL CHARACTERISTICS

Dimensions

15.5*8.5*3CM (excluding antenna, antenna length 15.5CM)

Weight

0.1KG



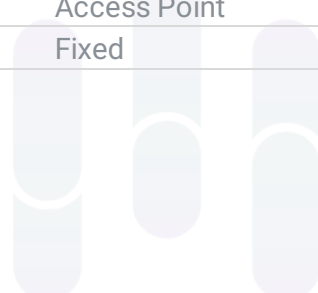
ENVIRONMENTAL CHARACTERISTICS

Working Temperature	-40 to 55 deg C
Storage Temperature	-50 to 70 deg C
Work Humidity	10% to 90%(non-condensing)
Storage Humidity	5% to 90%(non-condensing)

ORDERING CODE

DDWB 595N AP Hi

DDWB 595N	Databridge Dynamic 2.4G /5.8G Cellular Wi-Fi Bridge
AP	Access Point
Hi	Fixed



DATA BRIDGE
D Y N A M I C