



MWC-915 User Manual

5G NR-U Wireless Bridge

Rev. 1.1

2023-07-12

■ Revision History

| Date | Written by | Rev. | Description |
|----------|------------|------|-----------------------------------|
| 23.07.07 | Sun.Lee | 1.0 | MWC-915 User manual v1.0 -Pre |
| 23.07.12 | Sun.Lee | 1.0 | MWC-915 User manual v1.1 -Release |
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1.Introduction

1.1 Overview

The MWC-915 5G NR-U Wireless Bridge uses the 60GHz radio frequency band to form a wireless bridge with a transmission rate of 2Gbps in both directions.

It supports IEEE 802.11ad Standard and can use Ch1~Ch6.

It has an SFP port supporting either 1Gbps or 2.5Gbps and one 2.5 Giga Ethernet LAN port interface. And Passive PoE operation using LAN port is possible. (Type 48V)



< Figure 1. MWC-915 >

For more information, please contact your Miliwave (sales@miliwave.co.kr)

1.2 Abbreviations and Acronym Definitions

| Acronym | Definition |
|---------|---|
| Gbps | Giga bits per second |
| GHz | Giga Hertz |
| IEEE | Institute of Electrical and Electronics Engineers |
| LED | Light Emitting Diode |
| LoS | line-of-sight |
| Mbps | Mega bits per second |
| MCS | Modulation and Coding Scheme |
| MHz | Mega Hertz |
| PTMP | Point-to-multipoint Communication |
| QAM | Quadrature amplitude modulation |

2.0 Technical Specifications

| Parameter | Description |
|-----------------------|---|
| SOC | Dual core ARMv7 Cortex-A9 |
| PoE | Passive PoE (Typ 48V) |
| Operating Frequency | 802.11 ad : CH1, CH2, CH3, CH4, CH5, CH6 |
| | 57.24GHz ~ 70.20GHz |
| Transmit Power(max.) | 38 dBm @ MCS1 (ANT Beamforming Index 3) |
| Input Voltage | Voltage: 24V(typ), Current: 1000mA |
| Power Consumption | Data Transfer mode: Typical 20W (at Max. Power) |
| Operating Temperature | -30°C ~ +70°C |
| Storage Temperature | 10°C ~ + 40°C |
| Operating Humidity | 5%~95% |
| Storage Humidity | 5%~95% |
| Volume (L x W x H) | 200 x 220 x 57 mm |
| 색상 | Ivory |
| Weight | Typical 1.2kg |
| Input / Output Port | RJ45 2.5 GbE x1 |
| | SFP x1 |
| | 24V DC port(2-pin) x1 |

3.0 Web UI user guide

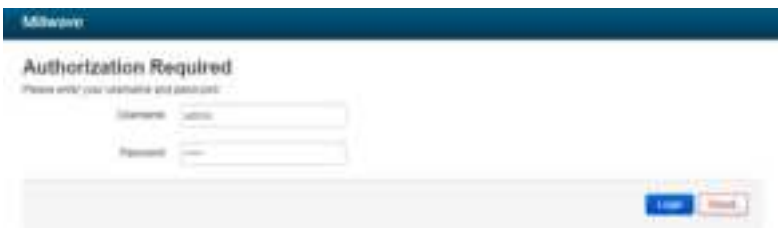
3.1 Login

- 1. Open your web browser, then go to <https://192.168.1.1>.
- 2. Enter the device login username and password.

The default username and password are as follows:

Username: admin

Password: admin



- 1. Your device's home page (or dashboard) should be displayed.



3.2 Device Overall Status



3.3 Wireless Status



3.4 Password Change



3.5 IP Network Settings



3.5 Wireless Setting



4.0 Installation

It is installed with power supply through 24VDC.
And the Passive PoE(Typ 48V) function supported.

5.0 FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The device must be installed such that a minimum separation distance of at least 25.15 cm is maintained between the radiator (antenna) and all persons at all times.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.