



MWC-936 User Manual

5G NR-U Wireless Bridge

Rev. 1.0

2023-08-08

■ Revision History

Date	Written by	Rev.	Description
23.08.08	Sun.Lee	1.0	MWC-936 User manual v1.0

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1.Introduction

1.1 Overview

The MWC-936 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~Ch4.

It has an 1Giga Ethernet LAN port interface. (Circular M12 connector).

And there is an RJ45 port for power supply. This port support Passive PoE(Typ 48V), and data communication will be applied in a later update version.



< Figure 1. MWC-936 >

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 ARMv8 Cortex-A53
PoE	Passive PoE (Typ 48V)
Operating Frequency	802.11 ad : CH1, CH2, CH3, CH4
	58.32GHz ~ 64.80GHz
Transmit Power(max.)	30 dBm @ MCS1 (ANT Beamforming Index 21)
Input Voltage	Voltage: 48V(typ), Current: 500mA
Power Consumption	Data Transfer mode: Typical 18W (at Max. Power)
Operating Temperature	-40°C ~ +85°C
Storage Temperature	10°C ~ +40°C
Operating Humidity	5%~95%
Storage Humidity	5%~95%
Volume (L x W x H)	105 x 120 x 50 mm
색상	Black
Weight	Typical 0.6 kg
Input / Output Port	Circular M12 Female connector (1Gbps) x1 RJ45 port x1 (This port is used for power. Data communication will be operated in the next version)

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

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Authorization Required

Please enter your username and password.

Username

admin

Password

Login

Reset

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

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StatusSystemQoSNetworkEditLogout

AUTO REFRESH ON

Status

System

Hostname

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Local Time

Wed May 24 08:54:23 2023

Uptime

2h 45m 42s

Load Average

0.27, 0.23, 0.19

Memory

Total Available

432264 kB / 510876 kB (84%)

Free

426944 kB / 510876 kB (83%)

Buffered

5320 kB / 510876 kB (1%)

3.2 Device Overall Status

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StatusSystemQoSNetworkEditLogout

AUTO REFRESH ON

Status

Overview

60GHz Status

3.3 Wireless Status

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StatusSystemQoSNetworkEditLogout

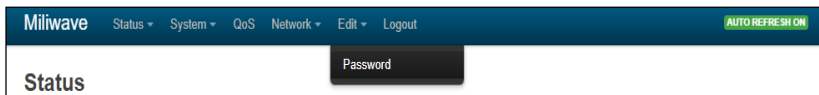
AUTO REFRESH ON

Status

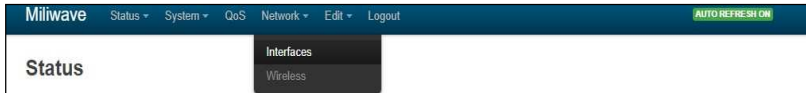
Overview

60GHz Status

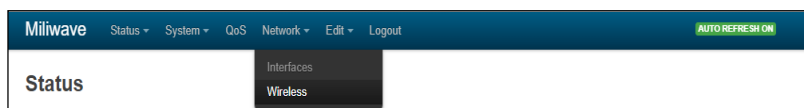
3.4 Password Change



3.5 IP Network Settings



3.6 Wireless Setting



4.0 Installation

It is installed with power supply through Passive PoE (Typ 48V).

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.