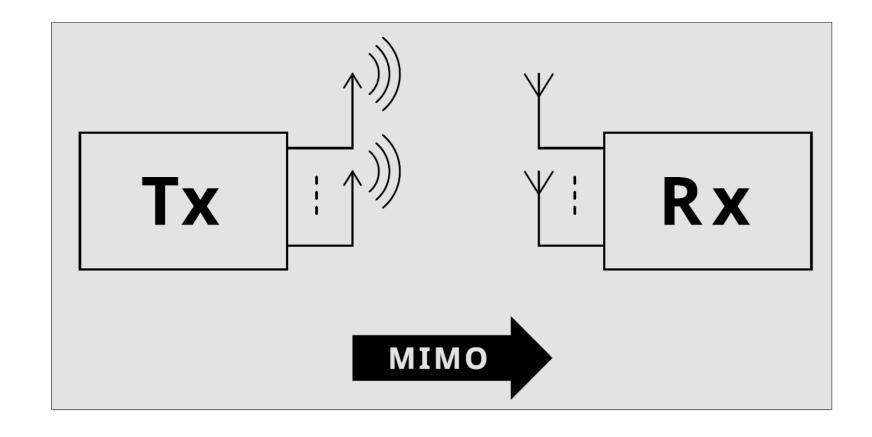


# 5G/LTE MIMO WATERPROOF ANTENNA

Everything can be transformed to IoT with 5G

# **PERFORMANCE**

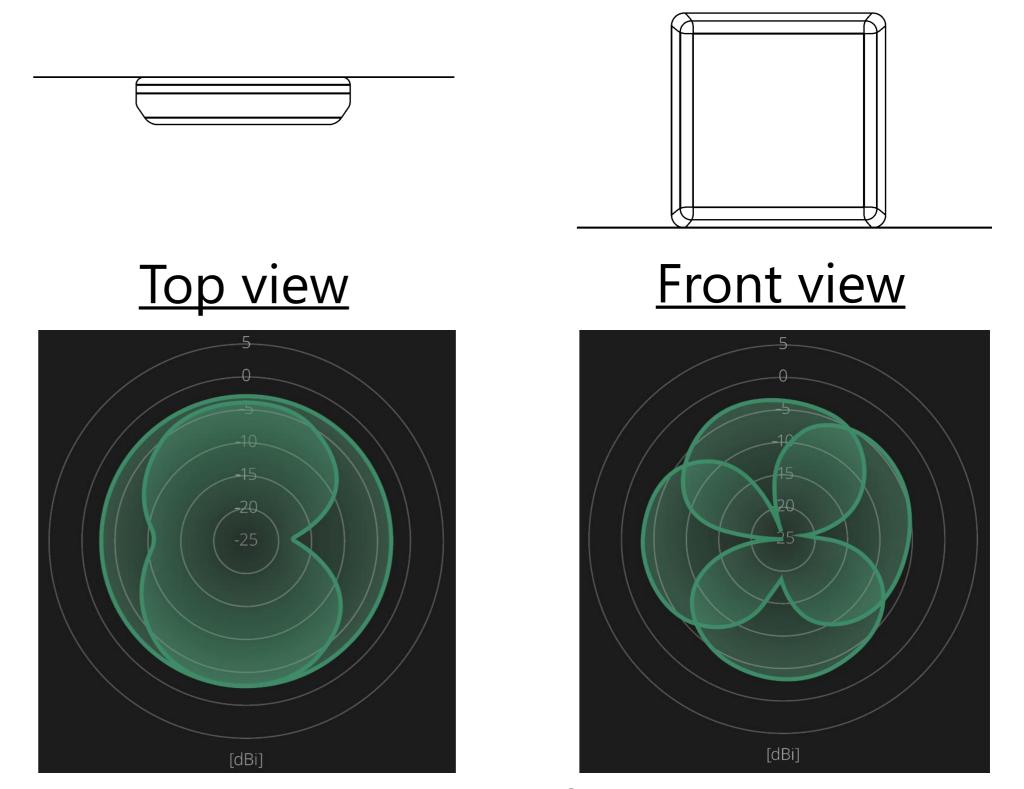
5G wireless communication under diverse outdoor conditions. One device with 2 builtin antennas for 2x2 MIMO communication.



#### **WHAT IS MIMO?**

#### MIMO = Multiple-input and Multiple-output

Smart antenna technology using multiple antennas for improved communication performance. Represented by "the number of receiving antennas x the number of transmitting antennas."



BREDI

Reception performance
Radiation pattern covers all directions

#### INSTALLATION

High reception and transmission performance enables flexible mounting of the antenna such as vertical installation with a bracket or wall mounting.





#### Resistant to large vibrations

A bracket designed to perfectly fit the antenna contributes to stable communication performance. Installable on construction or agricultural machines.

#### **Installable outdoors**

+++

Installable outdoors thanks to waterproof and dustproof features equivalent to IP67.

#### **Installable for transportation**



Our expertise as an automobile antenna manufacture made it possible to produce antennas with high antenna gain, wide bandwidth, weather resistance and installability in any type of vehicle.





# GNSS L1/L2/L5/L6/L Band

Multi frequency compatible

# PRODUCTS FEATURES-

**♦ Supports all major GNSS bands such as GPS, GLONASS, Galileo, etc** 

## L1: 1559MHz ~ 1606MHz

GPS L1 1574MHz ~ 1576MHz
Galileo E1 1573MHz ~ 1577MHz
GLONASS L1 1597MHz ~ 1606MHz
Beidou B1 1559MHz ~ 1563MHz

## L2: 1197MHz ~ 1249MHz

BeiDou B2b Galileo E5b

# L5: 1164MHz ~ 1188MHz

GPS L5
BeiDou B2a
Galileo E5a

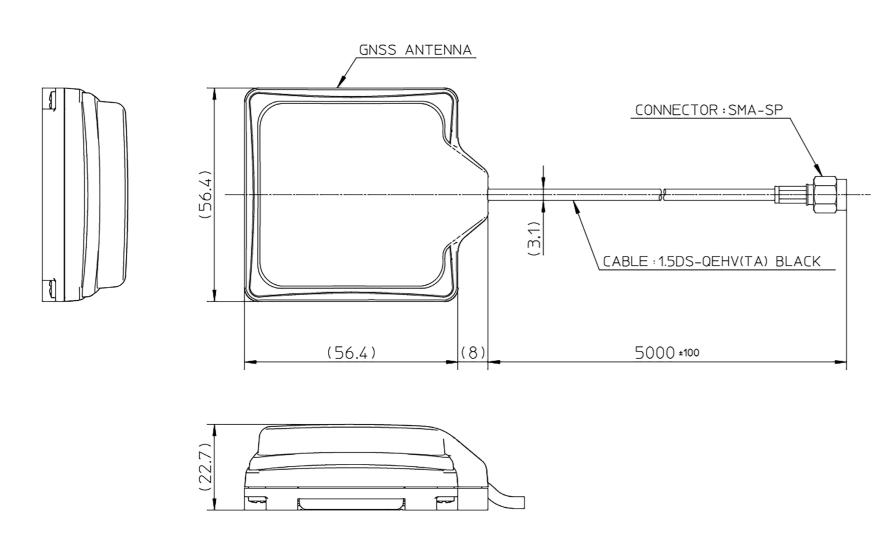
# L6: 1273MHz ~ 1283MHz

QZSS L6 Galileo E6

<u>L Band: 1525MHz ~ 155MHz</u>

◆ Miniaturization achieved despite being an antenna compatible with 5 frequencies ※ Same size as YOKOWO dual frequency (L1/L2 or L1/L5)

#### **Dimensions**





Advanced reception performance





# IP ANTENNA (TEL-TEL-GNSS(L1), 2×2 MIMO, 4G/5G) Compact and high performance for telecommunication

### PRODUCTS FEATURES

- Realization of TEL and GNSS broadband using our patented
- Minimization of Noise



### PERFORMANCE ———

TEL	Frequency Range	699MHz ~ 5GHz
	Polarization	Linear Polarization
	Efficiency	699 - 960MHz : Min9.0dB 1710 - 2690MHz : Min6.0dB 3300 - 5000MHz : Min8.0dB
	VSWR	Max. 4.0
GNSS	Receiving Frequency Range	GPS, Galileo: 1575.42 ±2.046MHz GLONAS: 1597.807 ~ 1605.6305MHz Compass(BeiDou): 1561.098 ±2.046MHz
	Receive Polarization	Right-hand Circular Polarization
	Total Gain	Min.20dBic (Zenith Direction, Except Cable and Connector)
	Noise Figure(LNA)	Max.3.0dB(+25°C)
	Out-of-band Attennuation Characterristics(LNA)	1560MHz ~ 50MHz: Min.25dB 1605MHz ~ 50MHz: Min.25dB
	Output VSWR	Max.2.0
	Power Supply Voltage Range	2.7 ~ 5.5V
	Current Consumption	10~30 mA

Mechanical	Weight	About 70g(Except Bracket, Cable,Connector)
Spec	Mounting Method	Resin Bracket
Environmental	Operational Temperature Range	-40 ~ +85°C
Characteristics	Strage Temperature Range	-40 ~ +85°C
Size(L x W x T)		80x60x15(mm)