

MiWire RouDem 5G

Directional Automatic Turning Antenna for Mobile Networks

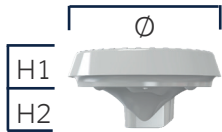
Datasheet

Package content

1 x MiWire RouDem 5G	2 x Keys (1x Unbraco 4, 1x Torx 10)
1 x Mounting bracket	5 x Screws
1 x PoE adapter	1 x User guide
1 x 10 m ethernet cable	1 x Privacy policy
1 x Back plate	

Specifications MiWire RouDem CAT6

Dimensions and weight



Diameter Ø335mm
Height without bracket (H1): 80mm
Height with bracket (H2): 160mm
Weight without bracket: 1,8 kg.
Weight with bracket: 2,1 kg.
Color: ligh grey

Install on a Ø38 mm/1,5 in pole in horizontal direction.

Environmental conditions

Temperature	Operational: -20°C to 80°C Storage: -40°C to 85°C
Relative Humidity	10%-95% (non-condensing)
Robustness	0.5m/1.64 ft drop on concrete
IP Rating	IP55 (dust and spray proof)

Mobile network

Data network	5G, 4G LTE, 3G
Region	Global
Frequency bands & MIMO	
5G NR	NSA: n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79 DL 4 × 4 MIMO: n1/n2/n3/n7/n25/n30/n66/n38/n40/n41/n48/n70 SA: n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79 DL 4 × 4 MIMO: 1/n2/n3/n7/n25/n30/n38/n40/n41/n48/n66/n70 UL 2 × 2 MIMO: n38/n41/n48
4G LTE	LTE-FDD: B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 29/ 30/ 32/ 66 LTE-TDD: B34/ 38/ 39/ 40/ 41/ 42/ 43/ 48 DL 4 × 4 MIMO: B1/B2/B3/B4/B7/B25/B30/B38/B40/B41/B42/B43/B48/B66
UMTS	WCDMA: B1/ 2/ 4/ 5/ 8/ 19

Antenna

Automatic mechnal pointing	Rotary motor with infinite rotation
Directional antenna	1x 0.7 ~ 8GHz, gain 3.0-11.0 dBi
Omnidirectional antenna	1x 1.5 ~ 6GHz, peak gain ≤ 5.5 dBi 2x 0.7GHz ~ 3.8GHz, peak gain ≤ 4.0 dBi

GNSS

Technology	GPS, GLONASS, BDS, Galileo, QZSS
Bands	L1/L5

Interfaces

LAN	1x RJ-45 10/100/1000 Mbps Max. cable legnth: 100m/328ft S/FTP CAT7, UV- and water resistant, double shielded, grounded
SIM	1x Micro-SIM 3FF slot eSIM *It is not possible to use both the eSIM LPA and micro-SIM simultaneously in the device.
WLAN Access Point	Wi-Fi 5 (IEEE 802.11 a/b/g/n/ac Wave2) 2.4 GHZ, 400 Mbps 5 GHz, 866.7 Mbps

Battery

Battery type	Lithium ion, rechargeable Operational time: min. 1 hour
--------------	--

Power

Power management	POE 802.3af, 48V, Max 500mA 100-240V, 50/60 Hz, 24W Connector: RJ45
------------------	---

Other Features

Compass	Built-in 0-360° compass for directional accuracy
Routing	Static/Dynamic
Data Logging	Signal strength, bytes sent and recieved, error messages, hardware info messages, speedtests
DHCP	Yes
Firewall	UNIX based firewall with iptables and rule configuration
WiFi access Control	MAC Black/Whitelist, Password authentication
Cellular Toolkit	Data Usage, Signal Usage, SIM PIN, network scan, network discovery, status
Configuration & Management	Web, SSH, serial connection, SCP
System Operation	System information, WiFi, network settings, SIM information, compass, reboot
Diagnostic	Remote diagnostic tools
LED-indicators	Power, antenna pointing

Certification - we are actively working towards achieving the following approvals and certifications for our product

Approvals/Certifications	CE, FCC, RoHS
--------------------------	---------------