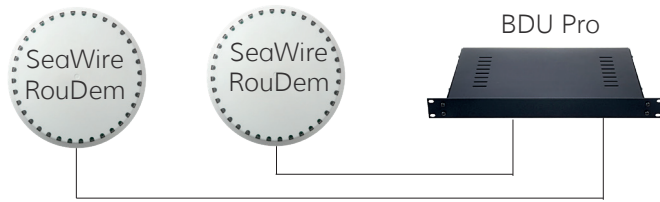


SeaWire Pro 4G (CAT6)

Directional Automatic Turning Antenna for Mobile Networks

Datasheet

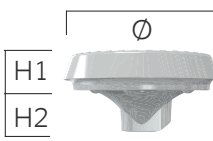


Package content

2x SeaWire RouDem CAT6	2x Keys (1x Unbraco 4, 1 x Torx 10)
2x Mounting Bracket	1x Privacy Policy
1x 19" BDU including Rack assembly items	1x User Guide
1x BDU power cable	1x Registration Information
10x Screws M6x16mm	

Specifications ADU (Above Deck Unit), SeaWire 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.
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Install on a Ø38mm /1,5 in pole in horizontal direction

Environmental Conditions

Temperature	Operational: -20°C ~ 80°C Storage: -40°C ~ 85°C
Robustness	0.5m/1.64 ft drop on concrete
Waterproof	IPX6

Modem variant for EMEA, Australia, Brazil Networks

4G-LTE	CAT 6, 2xCA, 2x2 MIMO, VoLTE
4G-LTE Max. Speed (x2)	FDD: Max 300Mbps (DL)/Max 50Mbps (UL) TDD: Max 226Mbps (DL)/Max 28Mbps (UL)
3G-WCDMA Max. Speed (x2)	DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL)
4G-LTE Bands	LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32 LTE-TDD: B38/B40/B41
3G-WCDMA Bands	B1/B3/B5/B8
Output Power	Class 3 (23dBm±2dB) for LTE
User interfaces	Power button with LED, Multi color LED (direction of antenna), MiWire user interface in English

Antenna

Directional	3-10 dBi (800-2700 MHz)
Omni directional	3-4.5 dBi (800-2700 MHz)

Interfaces

1 x LAN interface

Connector type	RJ-45
Data Rate	10/100 Mbps
Max. Cable length	100m /328ft (min. Cat5 UTP)

1 x Micro SIM-Card slot

WLAN Access Point

Standard	802.11 b/g/n 2.4GHz, 2x2MIMO, Automatic Channel Selection, AP Hotspot
Frequencies	2400.0-2485.0 MHz
Max. Coverage outdoor	300m / 984ft
Max. Datarate	300Mbps

Battery

Battery type	Lithium ion, rechargeable
Operational time	8 hours
Min. number of charges	300

Recharge time	4 hours 30 min
Charge temperature	11°C ~ 45°C

Power

Power type	Powered by BDU
Connector type	RJ-45

Specifications BDU Pro (Below Deck Unit)

Dimensions and weight

Standard 19" rack
Height: 44mm
Length: 423mm
Depth: 330mm
Weight: 4.1 kg

Environmental Conditions

Temperature	Operational: 0°C ~ 50°C
Relative humidity	Max. 90%

AC/DC power supply

Input	100-240VAC, 47-63Hz, 50W
Connector type	IEC 60320 C14 Inlet

Interfaces

2 x ADU interface

Connector type	RJ-45
Data Rate	10/100/1000 Mbps

2 x LAN interface

Connector type	RJ-45
Data Rate	10/100/1000 Mbps
Max. Cable length	100m /328ft (min. Cat5 UTP)

Features

Load balancing	Build load balancer between ADU's
Controller	Managing ADU's

Other Features

Port Forwarding	DNAT Redirect and Virtual Server
Routing	Static/Dynamic
Data Logging	Signal strength, bytes sent and received, error messages, hardware info messages, speedtests
DHCP	Up to 50 users
Firewall	UNIX based firewall with iptables and rule configuration
Access Control	MAC Black/Whitelist, Password authentication
Cellular Toolkit	Data Usage, Signal Usage, SIM PIN, Network Scan, Network Discovery, status
Configuration & Management System Operation	Web, SSH, Serial connection, SCP MMI, System Information, WiFi, Network, SIM, Compass & Map, Admin with firmware upgrade, Reboot & Get latest software
Diagnostic	Remote diagnostic tools

Certification

Approvals/Certifications	CE, FCC, RoHS
Standards & Regulation EMC	ETSI EN 301 489-17 V3.1.1 (2017-02), ETSI EN 301 489-1 V2.1.1 (2017-02), Draft ETSI EN 301 489-52 V1.1.0 (2016-11)
RF Exposure	EN 62311:2008
Safety	IEC/EN 62368-1:2014
Radio	ETSI EN 300 328 V2.1.1 (2016-11)