

SeaWire Pro 5G

Directional Automatic Turning Antenna for Mobile Networks

Datasheet

Package content		WLAN Access Point	
2 x SeaWire RouDem 5G	2 x Keys (4mm Hex, 2.5mm Hex)	Wi-Fi 5 (IEEE 802.11 a/b/g/n/ac Wave2)	
2 x Mounting bracket	10 x Screws M6x16mm	2.4 GHz, 400 Mbps	
1 x 19"BDU (Below Deck Unit)	1 x User guide	5 GHz, 866.7 Mbps	
1 x Power cable	1 x Privacy policy		
Specifications SeaWire RouDem 5G		Battery	
Dimensions and weight		Battery type	
	Diameter Ø335mm	Lithium ion, rechargeable	
	Height without bracket (H1): 80mm	Operational time: min. 1 hour	
	Height with bracket (H2): 160mm	Specifications BDU (Below Deck Unit)	
	Weight without bracket: 1,8 kg.	Dimension and weight	
	Weight with bracket: 2,1 kg.	Standard 19" rack	
	Color: ligh grey	H 44mm x L 423mm x D 330mm	
Install on Ø38 mm/1,5" pole in horizontal direction.		4.1 kg	
Environmental conditions		Enclosure	
Temperature	Operational: -20°C to 80°C	Metal housing, black powder coat	
	Storage: -40°C to 85°C	Environmental Conditions	
Relative Humidity	10%-100% (non-condensing)	Temperature	
Robustness	0.5m/1.64 ft drop on concrete	Operational: 0°C ~ +50°C	
IP Rating	IP66 (dust tight & protected against powerful water jets)	Relative humidity	
Mobile network		Max. 90%	
Data network		Interfaces	
Region		Networking (standard)	
Frequency bands & MIMO		4x WAN 10/100/1000 RJ45 (Port 1+2: SeaWire antennas)	
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	Networking (manuel enabling)	
	DL 4 × 4 MIMO: n1/n2/n3/n7/n25/ n30/n66/n38/ n40/n41/n48/n70	Port 3+4 configurable from WAN to LAN	
	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	LAN	
	DL4 × 4MIMO: 1/n2/n3/n7/n25/n30/ n38/n40/ n41/n48/n66/n70	1x RJ45 10/100/1000 Mbps	
	UL 2 × 2 MIMO: n38/n41/n48	Management	
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	1x RJ45 serial console	
	LTE-TDD: B34/ 38/ 39/ 40/ 41/ 42/ 43/ 48	Power	
	DL 4 × 4 MIMO: B1/B2/B3/B4/B7/ B25/B30/B38 /B40/B41/B42/B43/B48/B66	Power management	
	WCDMA: B1/ 2/ 4/ 5/ 8/ 19	AC 100-240V	
UMTS		Connector: IEC 60320 C14 Inlet	
Antenna		BDU features	
Automatic mechanical pointing		Load balancing	
Directional antenna		Weight control, route test, failover	
Omnidirectional antenna		DHCP	
	Rotary motor with infinite rotation	Yes	
	1x 0.7 ~ 8GHz, gain 3.0-11.0 dBi	Firewall	
	1x 1.5 ~ 6GHz, peak gain ≤ 5.5 dBi	Port forwarding, Nat, firewall policies	
	2x 0.7GHz ~ 3.8GHz, peak gain ≤ 4.0 dBi	Users	
GNSS		User role: admin/operator	
Technology		Configuration & management	
Brands		Web, SSH, serial connection, SCP	
Interfaces		VLAN	
LAN		Yes	
	1x RJ-45 10/100/1000 Mbps	POE	
	Max. cable legnth: 100m/328ft	2x 48V Active ~0.32A (port 1 + 2 standard)	
	S/FTP CAT7, UV- and water resistant, double shielded, grounded	2x 24V Passive 1A (port 3 + 4 manual enabling)	
SIM	1x Micro-SIM 3FF slot	LED-indicadores	
	eSIM	Other Features	
	*It is not possible to use both the eSIM LPA and micro-SIM simultaneously in the device.	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	
		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	