

LONG RANGE RADIO SPECIFICATIONS



Emesent's Long Range Radio accessory easily attaches to a compatible Hovermap to increase the connectivity range up to 20 times, for a reach of up to one kilometer with above ground, line of site flight.* This allows you to reap the full benefits of Hovermap's autonomy and mapping capabilities and extend the range of its applications.



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Ingress Protection	Air-side IP65
Dimensions & Weight	<p>Air-side 285 g (10 oz) with 915MHz antennas 260g (9.2 oz) with 2.4GHz antennas 32 x 94 x 120 mm (without antennas) 1 ¼ x 3 7/10 x 4 18/25 in (without antennas)</p> <p>Ground-side 605 g (21.3 oz) with 915MHz antennas 570g (20.1 oz) with 2.4GHz antennas 55mm x 80mm x 155mm 2 5/32 x 3 9/64 x 6 7/64 in</p>
Operating Frequency & Power	<p>Long Range Link 2.4GHz Model: EU: 2.4 GHz @ 20dBm EIRP JP: 2.4 GHz @ 23dBm EIRP AU/NZ/US/CA: 2.4 GHz @ 30dBm EIRP 915MHz Model: AU/NZ/US/CA: 915MHz @ 30dBm EIRP</p> <p>Ground-side Wifi Access 2.4 GHz @ 20dBm EIRP (all models)</p>

Maximum Tested Distance	1 km (3 281 ft) for above ground line of sight flights* 500 m (1 640 ft) when flying around bridges and occasional beyond visual line of sight* 150 m (492 ft) for non line of sight underground* <small>*Subject to environment/geometry and region configuration</small>
Throughput	up to 20 Mbps
Data Encryption	128-bit AES hardware data encryption
Power	<p>Air-side 9-20V (15W)</p> <p>Ground-side 9-20V (18W). Supported batteries Nitecore NB10000 Gen 1 & Gen 2. Battery life 4 hours.</p>
Operating Temperature	-10°C to 45°C (14°F to 113°F)
Hovermap Compatibility	Hovermap ST, Hovermap ST-X
Drone Compatibility	DJI M300 and DJI M210v1