



SubWAVE™ Solution

Simulator

Seamless & Universal GPS/GNSS Coverage Extension



More powerful than a GPS repeater, SubWAVE™ is capable of generating, in real time, genuine GNSS coordinates computable by standard receivers.

Operators can monitor their whole network and locate in real time their assets and workers with longitude, latitude, and altitude coordinates.

Available with precisions tailored to our clients' use cases, SubWAVE™ is the perfect solution to enable every underground location challenge, at once.



**Universal High Accuracy
Positioning Solution**



**Seamless Transition
Outdoor/Underground**



**Compatible with existing PMR/
TETRA receivers**



**No interferences with
other RF feeds**



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Specifications

SIMULATION

Possible Constellations & Signals

GPS	L1 C/A; L5 ¹
GALILEO	E1; E5A ¹
Beidou	B1C ¹
QZSS	L1 C/A ¹

¹: available on demand

Performance

Nb of satellites	Up to 293
RF Channels	Up to 12 physical outputs

RF FRONT END

RF Output

Frequency Range	1100MHz to 1610MHz
RF Bandwidth	40MHz
RF Power (@50 Ohm)	Up to -20 dBm
Output VSWR	< 1.3
Supported VSWR	∞ (permanent)

GENERAL

Connectivity

Network Connectors	RJ45
Impedance of RF connectors	50Ω (Ohms)

Hardware Specifications

Size	4U 19 inches
	Depth: 490 mm (w/o cables)
Weight	21 kg
Input Voltage Ranges	100 to 240 VAC (50 to 60 Hz) or -48 VDC
Power Consumption	200W
Operating Temp. Range	+5°C to +35°C
Storage Temp. Range	-20°C to +55°C



For more information

Our Offices



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Or contact us: contact@syntony.fr

