

ARCALE RF SYSTEMS

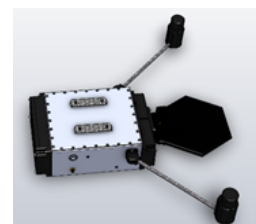
ARCALE RF PAYLOAD IS NEW ALL IN ONE PRODUCT FAMILY DESIGNED TO BRING A NEW WORD IN RF MEASUREMENT CARRIED BY DRONE.

ARCALE RF Payload :

This product is totally drone independent, the customer must only adapt the mechanical link with the drone. And, it's a modular design, as well with the power generation, sensor, RF Front end and RF instrumentation.

Specifications :

	ARCALE RF Payload
RF Specification :	
Channel type	Rx or Tx
Frequency band (SMA 50 Ohms)	1MHz to 6GHz
iBW	12MHz
Sensibility	-110 to -10dBm
RF Front End :	
Rx Mode	RF Specification depending of customer needs
HF	Antenna, filtering & LNA
VUHF	Antenna, filtering & optional LNA
SHF	Antenna, filtering & LNA
Tx Mode	Available soon
Energy Module :	
External electrical generation	
Internal battery module	Autonomy 1h, up to 5h depending hardware configuration
Software :	
Payload	ARCALE RF Payload + ARCALE RF Suite
Ground station	Generic application or 3D antenna Diagram Measurement software
Hardware :	
Hard drive capacity	Up to SSD 8TB x2
Optional inertial unit	0.05° Roll and Pitch (RTK) 0.2° Heading (Dual Antenna RTK GNSS) Immune to magnetic distortions 1 cm RTK GNSS Position
Connectivity :	
Ethernet	up to 2.5GB/s
Telemetry	Encrypted link 868MHz up to 20km in free space depending local regulation
Size	
	Control unit : 200x175x90mm RF Front End without antenna : 35x175x90 minimum Energy module : 35x175x90 minimum
Weight	2kg depending sensors and modules configuration



Typical application :

- 3D Antenna diagram
- COMINT, SIGINT
- Spectral monitoring