

# Introduction



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## ANTENNA SYSTEMS



## MAST SYSTEMS



## POWER SUPPLIES



## MARINE ANTENNAS



## UTILITY SYSTEMS





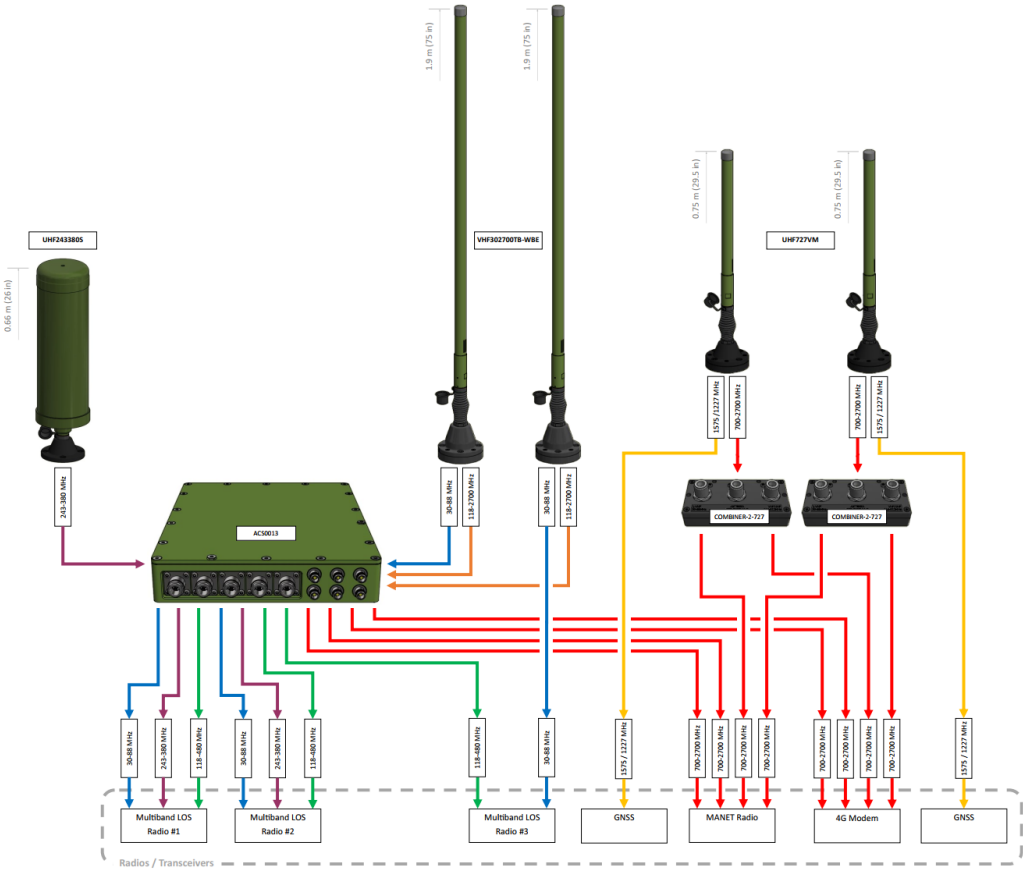
# Antenna systems solutions for optimisation of platform space



Challenge: Limited platform space with potential co-site interference and pattern distortion



Solution  
5 Antennas - 3 Combiners - 18 Radio Ports  
VHF, UHF, L-S band, MUOS, UFO, GNSS



# Telescopic & Sectional Masts

Maybe the widest range of masts!



- **Telescopic** masts for vehicle, shelter or trailer integration
- Heights up to 18 metres
- Payloads up to 350 kg
- Rigid platform for EO/IR systems, cameras, sensors and antennas
- Compact footprint minimises space claim required for integration
- Highly configurable design for extended height, retracted height and payload weight/pointing accuracy
- Positioning systems...TCT, CAPAS, CAPAS-MC



- **Sectional man-portable** masts
- Ground deployed
- Heights up to 15 metres
- Payloads up to 20 kg



# Power Supplies & Battery Chargers

ComPact series – Fully ruggedised, high power density, small size



**ComPact 2400 AC/DC**

Power Supply & Battery Charger  
AC/DC – Input 99-276VAC / Output 28VDC (80A)



**ComPact1200 Dual Input**

Dual Input Power Supply & Battery Charger  
DC/DC – Input 9-16VDC / Output 28VDC (40A)  
AC/DC – Input 99-276VAC / Output 28VDC (40A)



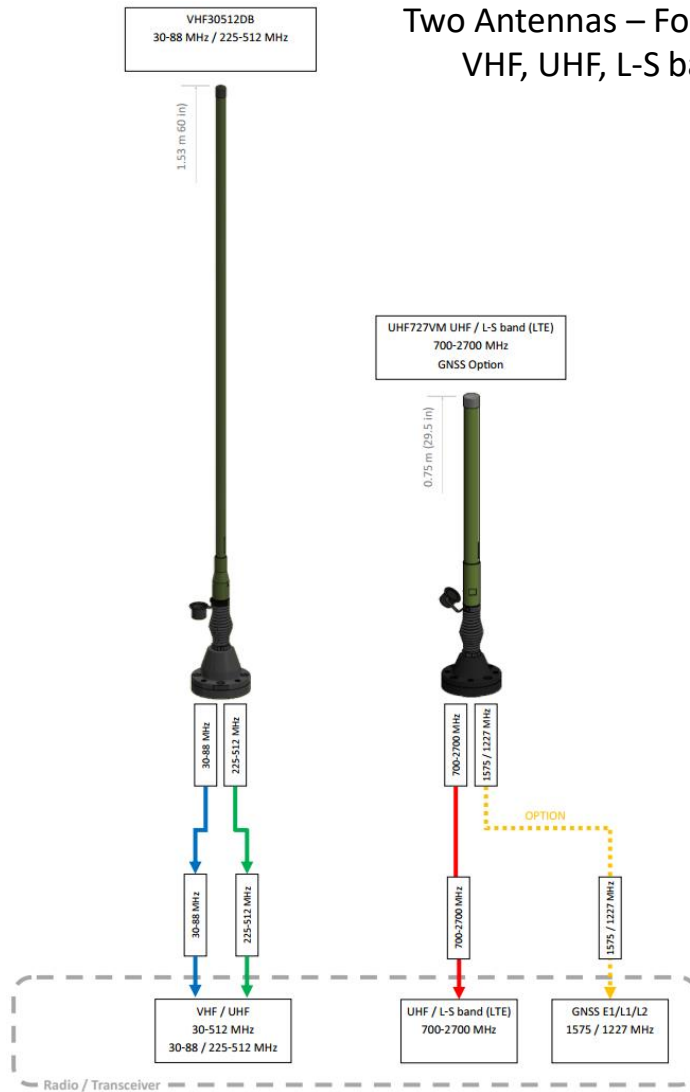
**ComPact 2000 DC/AC**

DC to AC Inverter  
DC-AC - Input 18-34VDC  
Output 120/230VAC pure sine, 50/60Hz, 2000VA

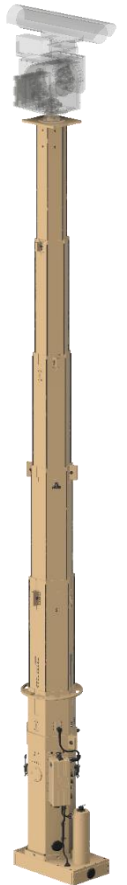


# FFG G5 demonstration vehicle – AFCEA Bonn 2021

Two Antennas – Four Radio Ports  
VHF, UHF, L-S band, GNSS

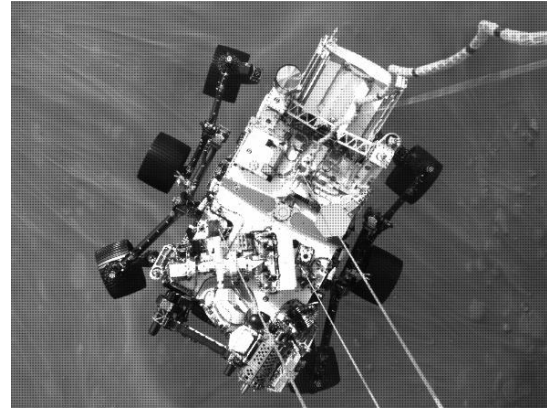


TM170 Aluminium Telescopic Mast

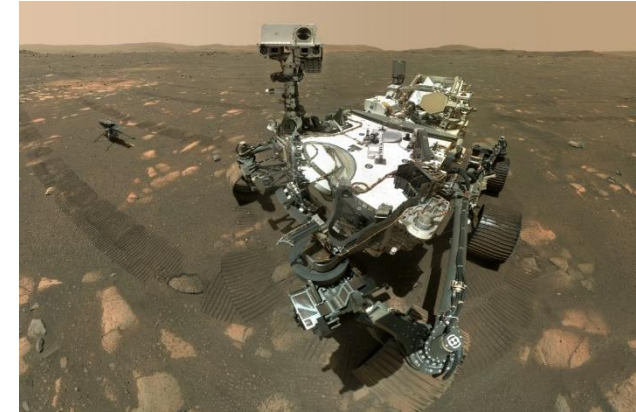


# MARS 2020 – When quality is important.

- Antenna for Ground penetrating radar on the NASA Mars 2020 rover.
- Developed in cooperation with the Norwegian Defence Research Establishment (FFI)
- Take off 30<sup>th</sup> July 2020, Landed 18<sup>th</sup> February 2021



Landing – 18<sup>th</sup> Feb 2021



Perseverance and Ingenuity on Mars



MARS Perseverance



RIMFAX ground penetrating radar



150-1200MHz GPR antenna