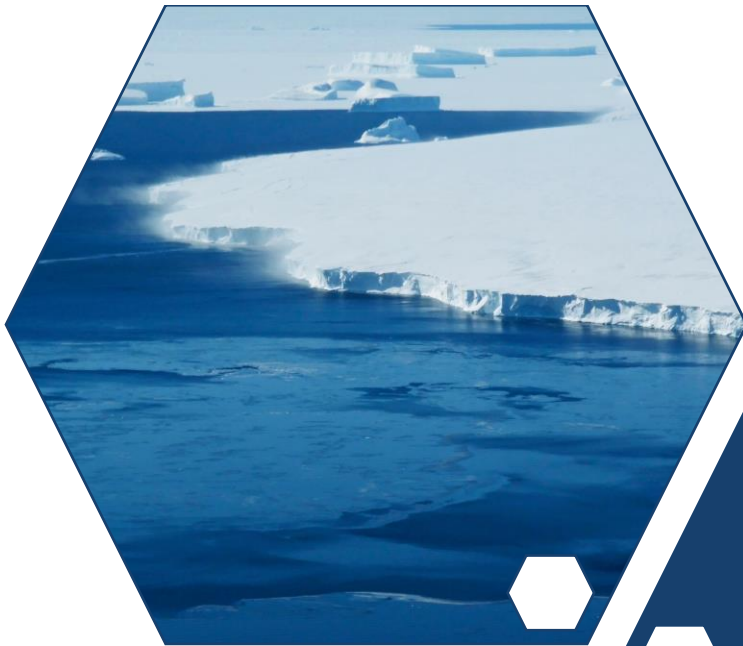




DREAM RF LTD PRODUCT BROCHURE



2024/25

Product List, 2024/25

[All Prices on Application]

Radar Units

10-01 ApRES Phase-Coherent FMCW radar

200 - 400 MHz; Tx power < 100 mW; operating temperature to -40°C; power supply between 6 and 14 V; dual SD card mass storage (excluding SD cards); integrated single frequency GNSS receiver; two-way Iridium modem for partial data transfer and remote re-configuration. Supplied with Iridium and GPS antennas and mounting bracket; pair of cables for radar antennas, Iridium and GPS antennas; power cable; ruggedised Ethernet cable.



10-02 ApRES Phase-coherent FMCW radar: MIMO version

As above, but with 8x receive and 8x transmit ports that are internally switched to achieve MIMO operation. May also be used for polarimetric measurements. Available on special order. Since the unit may be configured in a variety of ways the radar antenna cables are not supplied and must be ordered as separate items.



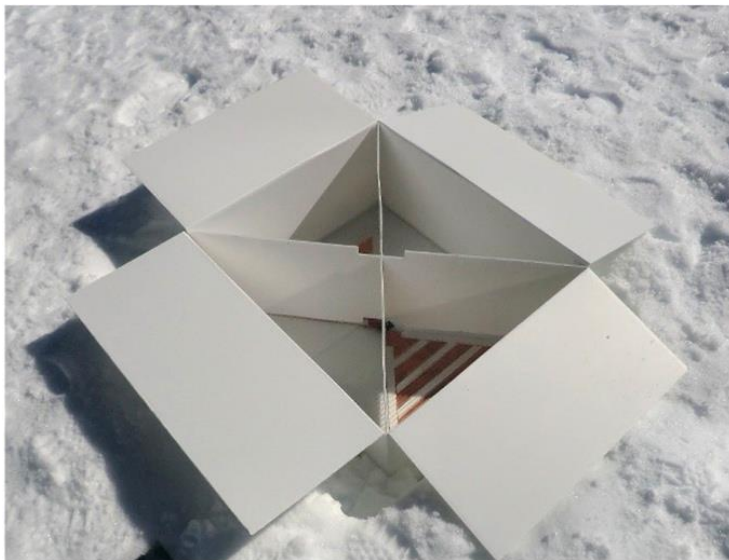
20-01 Skeleton Slot Antenna

A heavy-duty durable antenna for polar ice sounding and other GPR applications. 200-400 MHz operation, 7 dBi gain. N-type connector.



20-02 Cavity-backed Bow Tie Antenna

A lightweight antenna that is supplied flat-packed. 200-400 MHz operation, 6 dBi gain. TNC connector.



20-03 Iridium/GNSS antenna

A lightweight dual-band antenna for Iridium and/or GPS communications. SMA connector.



Dimensions in mm

Cables

30-01 Main Antenna Connection Cable (for Skeleton Slot antenna)

N-type to N-type, 5 m long, extra-flex coaxial cable. Suitable for use with the Skeleton Slot antenna. One pair required per standard ApRES unit.

30-02 Main Antenna Connection Cable (for Cavity-Backed Bow Tie Antenna)

N-type to TNC, 5 m long, extra-flex coaxial cable. Suitable for use with the cavity-backed bow tie antenna. One pair required per standard ApRES unit.

30-03 Iridium/GPS Antenna Connection Cable

N-type to SMA, 5 m long, extra-flex coaxial cable. Suitable for use with our dual-band Iridium/GPS antennas. One pair required per standard ApRES unit.

30-04 N-type to N-type (for Skeleton Slot Antenna)



30-05 N-type to TNC (for Cavity-Backed Bow Tie Antenna)

30-06 Ruggedised Ethernet Cable

A durable, flexible ethernet cable suitable for low-temperature operation.

30-07 DC Power Supply Cable/Connector

An ultra-flexible silicone cable and connectors for low-temperature 12 V DC connection to ApRES units.

30-08 Phase-Stable Ultra-Flex cable

For use in mobile situations. A very high quality, low loss, extra-flex cable, 3 m long.

Company Details
Dream RF Ltd*, 120 Ferney Road, Barnet, London, EN4 8LE, UK. Company Number: 15789701 VAT No: 471 7087 76 EORI: GB471708776000 <i>*Dream RF Ltd is a UCL spinout company</i>

Contact Details
Dr Kevin Chetty k.chetty@ucl.ac.uk

