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RESEARCH



Hydra 4x4 Phased Array Radio Head

Radio Head Mast Mounted SDR For O-RAN
or Remote SDR Applications Available in Fall 2022



DIGITAL SIGNAL PROCESSING HORSEPOWER

MADE FOR SMALL FORM FACTOR OUTDOOR USE

Module Stackup:

Cerberus Antenna Array

RFFE 0-6GHz (options for 1 to 16 independent 0-6GHz 1GHz BW tuners)

RFFE Baseband IF module

Cerberus SDR, RFSoc based 16 channel Quad-core ARM + FPGA

Dual Optical module

GPS locked clock references

6.00" x 8.00" x 2.95"

Dual x16 RF 50 ohm connector array (16 TX/RX or 16 separate TX and RX)

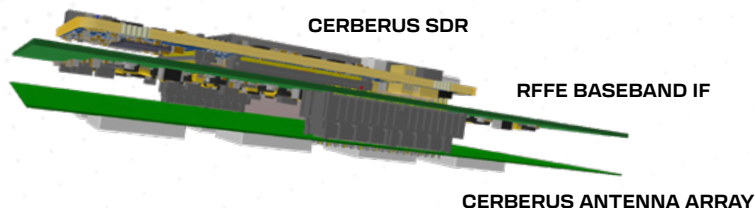
External Connectors: 2 10Gb/s optical links, 1G Ethernet and power

Weatherproof sealed unit - made for outdoor use

8V-16V input voltage

Typical power ~60-80W, depends on software & DSP work load

Massive Digital Signal Processing provided by AMD/Xilinx RFSoc



Ipsolon Research specializes in ultra-small form factor high performance Software Defined Radios. Our specialty is wideband radios with substantial signal processing resources for demanding SDR application. All radios have at least two TX and RX antennas and have clocking subsystems designed to support high performance phase coherent radio channels and expansion of coherency across multiple radio modules.

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