

NEW

19" Rack Mounted Products



Switch Matrix / Routers

- **HARRIER 128x128** – Ultra compact with configurable I/O modules which include fibre inputs, LNB power, fixed gain & variable gain. High performance & suitable for HTS applications.



- **HURRICANE 64x64** – configurable I/O modules which include fibre inputs, LNB power, fixed gain & variable gain. Ultra compact, with high performance.



- **VORTEX 100 series 64x64** – compact 5U design with enhanced performance. Available as distributive & combining.



- **ENIGMA 100 series 32x32** – 4th generation chassis with improved RF performance & new capacitive touch screen.



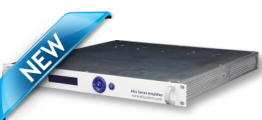
- **ENSIGN 100 series 32x32** – FIFO matrix with enhanced performance covering 500-3150MHz.



- **HAWK Dual 8x8** – with capacity for two field replaceable distributive &/or combining modules for uplink & downlink.



- **HAWK Quad 4x4** – with capacity for four field replaceable distributive &/or combining modules for uplink & downlink.



Amplifiers

- **ALTO 2-18GHz KU-band 2+1** redundant amplifier module & chassis.

- **ALTO 40dB Variable Gain IF** – amplifier module (ALT-S-F3-077).

- **ALTO 16-way with hot-swap 1:1 redundant amplifiers** – (ALT-25401).

- **ALTO S-band (850-2150MHz) Slope Equaliser** – Smart amplifier module (ALT-S-56-201).



Frequency Converters

- **FALCON Agile & Block Up & Down Frequency Converter** with a variety of frequency ranges including Ka, Ku, K, X, S, C, to & from L & IF band. 1U chassis with up to 5 frequency converter modules. Integrated 1+1 or 2+1 redundancy options.

RF over Fibre

- **STINGRAY Complete CWDM & DWDM systems** with converters, mux & de-mux, EDFA amps, delay lines & modules for diversity sites.

- **STINGRAY Fixed gain low noise modules** for HTS.

- **STINGRAY VSAT Fibre System** for rapid deploy terminals.

- **STINGRAY Optical Ethernet** modules & chassis.

- **STINGRAY 2x1 Optical Switch** Griffin module for fibre redundancy,

- **STINGRAY 160MHz ultra low phase noise** links for reference sources.



Splitter / Combiner

- **4-way Splitters with internal amplifier redundancy** – covering 850-3150MHz. Variable gain & slope, RF input detection & LNB powering. Housed in 3U Genus chassis.

- **4-way Combiners with internal amplifier redundancy** – covering 850-3150MHz. Variable gain & slope & RF output detection. Housed in 3U Genus chassis.

- **DEXTRA 16-way active splitter (distribution amplifier)** with hot swap front mounted 1:1 redundant amplifiers, 30dB gain & 0 to +6dB slope range (D0116S1ULA-22522-12).

- **Dual input 32-way 10MHz splitter:** with dual redundant amplifiers & PSU's, variable gain/slope, with individually controllable outputs.



Power Inserters

- **PIRANHA** – Fixed (18V) & variable (13/18V) voltages. 48V BUC powering. Provided with dual redundant, hot-swap power supply modules. SMART load monitoring options from 100W & 200W power supply modules. Now available - DC powering with variable voltage & dual 10MHz input (PRN-16)



Switches

- **GRIFFIN RF, ASI & Optical** redundancy switch – flexible switching with L-band, RF & ASI switch options (dual 2x1)

- **SHF switches** – DC-40GHz 16:1, 0-18GHz 16:1, 8:1 & 4:1, 12:1, 32:1, 48:1, Dual 6:1, 5 channel 2:1.

- **2:2 transfer switch unit**, 16 channel, DC-3GHz .

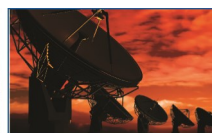
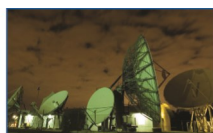
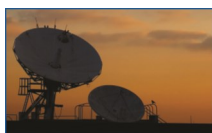


Timing & Reference Distribution

- **Dual input 16-way Timing Distribution** – with IRIG-B and 1 PPS splitting. (D0216S1UIA-22512)

- **10 MHz 16-way Distribution Amplifier** with individual gain controllable outputs (D0216S1UIA-22482)

- 1+1 redundant 10 MHz source.



NEW

RF Component Products



Did you know we can also provide custom designed RF solutions?
If you can't find exactly what you require please contact our RF Components team.



GPS & GNSS

- GPS Splitters
- GPS Amplifiers
- GPS lightning arrestors



GPS over Fibre

- Distributes GPS timing signals from a single antenna
- Compact & weatherproof ODU
- Extended L-band frequency range
- Low loss



Stand Alone RF Over Fibre

- Compact interfacility fibre links
- L-band/Broadband polarisation over single mode fibre, from an antenna to reception equipment up to 10 km away.



Isolators & Circulators

- Choice of RF connectors SMA & N type
- Narrowband or broadband
- Custom frequency bands available



Passives

- **Attenuators** - high current/voltage DC passing. L-band, DC- 8, DC-18, DC-40 GHz
- **Impedance Transformers** - high current/voltage DC passing. Low insertion loss, high RF performance
- **Bias Tees** - high current/voltage, L-band, DC- 6GHz.
- **Multiplexers & DC blocks** - 10 MHz & DC multiplexing, L-band & DC-40 GHz.



Wavguide Components

- WR-650 to WR-28
- Flex/Twist, Seamless Twist
- Straights, Bends, twists
- Couplers, Loads, Fixing kits
- Adaptors, Transitions, pressure windows

Outdoor IP Rated

- IP65 rated ODU Splitter - Extended L-band 850-2450 MHz, high performance.
- IP54 & IP67 rated Passive Splitters & Combiners
- IP65 rated ODU Fixed & Variable Gain Amplifiers - field serviceable with settable gain from 0-30 dB in 1 dB steps.

Switches

- **POE Switches** - Powered & controlled over Ethernet. 2x1 or 1x2, 4x1 or 1x4, 8x1 or 1x8. Compact design for small spaces.
- **Pin Diode Absorptive Switches** - SPDT Switches & SP4T, SP8T Switches. 0.5 - 18 GHz Switches

Block Up Converters

- **Block Up Converters** - L-band - Ku-band, L-band - Ka-band, L-band - C-band & L-band - X-band. High powered, high stability, fixed phase locked looped (PLL) oscillators.
- **Block Down Converters** - Ku - L-band, Ka - L-band, C-band - L-band, X-band - L-band

KU & Wideband Splitters

- 0.5-18 GHz 2-8 GHz, 2-18 GHz, 10-15 GHz & 6-18 GHz, 1-40 GHz
- 2-way, 3-way, 4-way & 8-way modules

Custom Filters

- **Coax Filters** - custom made to specifications from DC - 40 GHz. High power up to 100W,
- **Diplexers** - custom made to specifications DC - 40 GHz. High power up to 100W,
- **Waveguide Filters** - From DC- 40GHz. C-band & Ku-band Tx / RX Reject filters. Added Features 5G & Radar Reject filters.

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