



ETL Systems

New technologies
in RF distribution



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.



- **ENIGMA 101 32x32** – NEW 4th generation chassis with improved RF performance and new capacitive touch screen



- **VICTOR 16x16** – software sized / expandable as standard (VTR-71 & VTR-80). Combining / fan-in version now available.



Amplifiers

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

- **ALTO PLUS** – multiple performance options optimum noise, optimum linearity, redundant amplifiers.



Switches

- **GRIFIN RF, ASI & Optical** redundancy switch - flexible switching



- **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 .

RF over Fibre

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

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

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

- **Optical Ethernet** modules & chassis.

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

Splitter / Combiner

- **4, 8 & 16-way active splitter (distribution amplifier) / combiner** with hot swap front mounted 1:1 redundant amplifiers, 30dB gain and 0 to +6dB slope range.

- **Hot swap modular system splitters:** 8-way & 4-way with redundant amplifiers, variable gain / slope, RF detection & LNB power.

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.

Other products

- **10 MHz 16-way Distribution Amplifier** with individual gain controllable outputs.
- 1+1 redundant **10 MHz source**.
- 16 port 10 dB **coupler panel**.
- 64 port **termination panel**.





RF Components



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

- Coaxial or waveguide
- Choice of RF connectors SMA and N type
- Narrowband or broadband
- Custom frequency bands available



Custom Filters

- Passive component ranges including
- Bias Tees, fixed and custom attenuators,
- DC-40 GHz, multiplexers & DC blocks

Outdoor IP Rated

- IP54 & IP67 rated passive splitters & combiners
- IP65 rated amplifiers



Pin Diode Absorptive Switches

- SPDT switches & SP4T switches
- 0.5 - 18 GHz



Block Up Converters

- L-band – KU-band
- High powered, high stability
- Fixed phase locked looped (PLL) oscillators



KU & Wideband Splitters

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



Waveguide Components

- WR-650 to WR-28
- Flex/Twist
- Straights, Bends, twists
- Couplers
- Adaptors, Transitions



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