

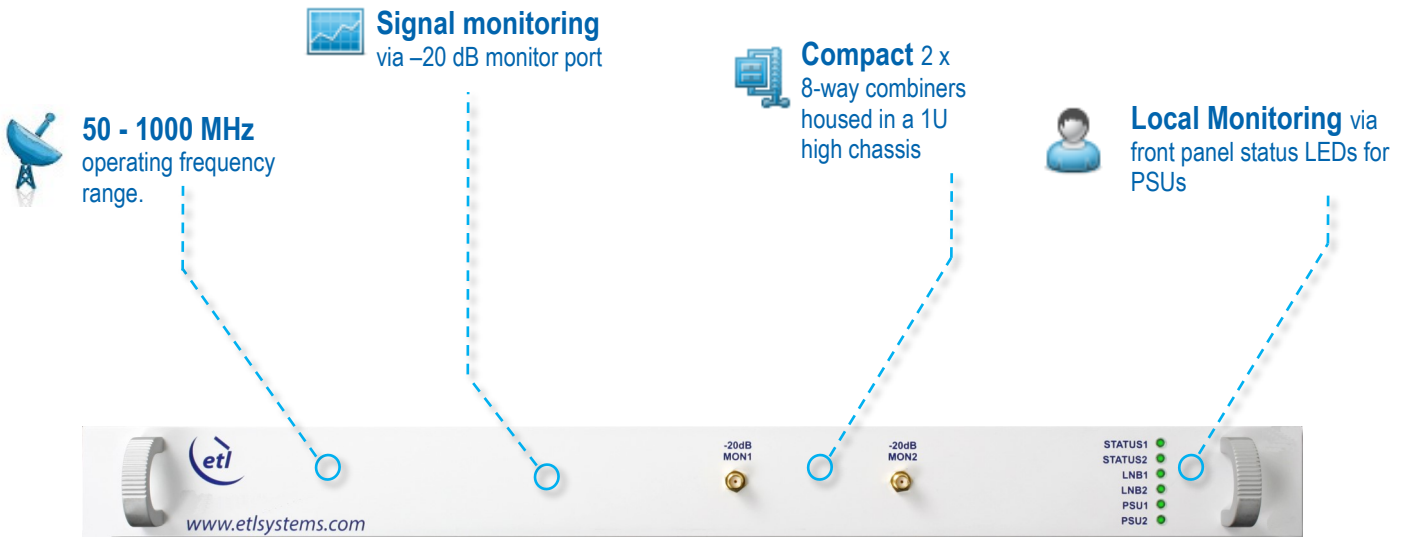


8-way Dual IF Active Dextra Series Combiner

with dual redundant amplifiers (OPT-R version)

Typical applications:

- Satellite operators, VSAT, teleports and broadcasters.
- IPTV and DTH headend content distribution.
- High resilience RF distribution where optimum satellite signal quality is required.
- Redundancy applications for remote satellite teleports.
- SNG and Outside broadcast trucks.



Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface

Dry contact alarm port for amplifier & power supply status

Resilience from dual redundant amplifiers (OPT-R) & power supplies





Technical specifications and operating parameters

| RF Parameters | | | | | |
|---------------------------------|---|-------------------------|---|------------|---------------|
| Capacity | Dual 8-way Combiner | | | | |
| Front Panel Monitor | 50Ω SMA | -20dB, 16dB return loss | | | |
| Frequency Range | 50-1000 MHz (IF) | | | | |
| RF Connectors & Impedances | 50Ω SMA | 50Ω BNC | 75Ω BNC | 75Ω F-type | |
| Gain (Mean across band) | 0±1.0 dB | | | | |
| Gain Flatness | Full band | ±0.8 dB | ±0.8 dB | ±1.0 dB | ±1.0 dB |
| | Any 36 MHz | ±0.25 dB | ±0.25 dB | ±0.3 dB | ±0.3 dB |
| Input Return Loss | Typical | 21 dB | 21 dB | 21 dB | 21 dB |
| | Minimum | 16 dB | 16 dB | 16 dB | 16 dB |
| Output Return Loss | Typical | 20 dB | 20 dB | 20 dB | 20 dB |
| | Minimum | 16 dB | 16 dB | 16 dB | 16 dB |
| Group Delay Variation | Full band | 2 ns maximum | | | |
| | Any 36MHz | 1 ns maximum | | | |
| Amplification | Single path amplifier | | Standard Model | | |
| Amplifier Option | Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring. | | | | Option: OPT-R |
| Isolation @ 70 MHz | Typical | 30 dB | 30 dB | 30 dB | 30 dB |
| | Minimum | 20 dB | 20 dB | 20 dB | 20 dB |
| Isolation @ 1000 MHz | Typical | 21 dB | | | |
| | Minimum | 16 dB | | | |
| Noise Figure | 24 dB | | | | |
| Output 1 dB GCP | +10 dBm | | | | |
| OIP3 | +20 dBm | | | | |
| OIP2 | +30 dBm | | | | |
| 3rd Order intermodulation level | -40 dBc | | With 2 equi-magnitude -13 dBm carriers. Total power -10dBm. | | |
| Input RF Power | 16 dBm | | Absolute Maximum | | |
| In Band Spurious | <-80 dBm | | | | |

| Environmental | |
|-----------------------|---------------------------------------|
| Operating Temperature | 0 to 50°C |
| Location | Indoor use only |
| Storage Temperature | -20°C to +75°C |
| Humidity | 85% non-condensing |
| Altitude | 10,000 ft AMSL (above mean sea level) |

| Power | | |
|----------------|--------------------------------------|----------------------------------|
| PSU Power | 85-264Vac 50-60Hz | Fused 2A |
| AC Consumption | <15W | Max. consumption at steady state |
| BUC Power | None | |
| PSU Redundancy | Dual redundant with dual IEC inlets. | Diode OR. Not swap. |
| Hot-swap PSU | None | |
| Input RF Power | 16dBm | Absolute maximum |

| System Control | |
|-----------------------------|--|
| Display | Tri coloured LEDs to indicate PSU and amplifier status. On front panel. |
| Remote Control & Monitoring | RJ45 Ethernet port 10/100 Base T. Ethernet offering web browser access, SNMP and ETL Proprietary TCP protocol. |
| Alarms | Dry contact (D-type) & Ethernet (RJ45) for PSUs and summary alarm. |

| Physical | |
|------------|---------------------------------|
| Dimensions | 1U high x 350mm deep x 19" wide |
| Weight | 3.1 kg |
| Colour | RAL9003 — White (semi-matte) |

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.