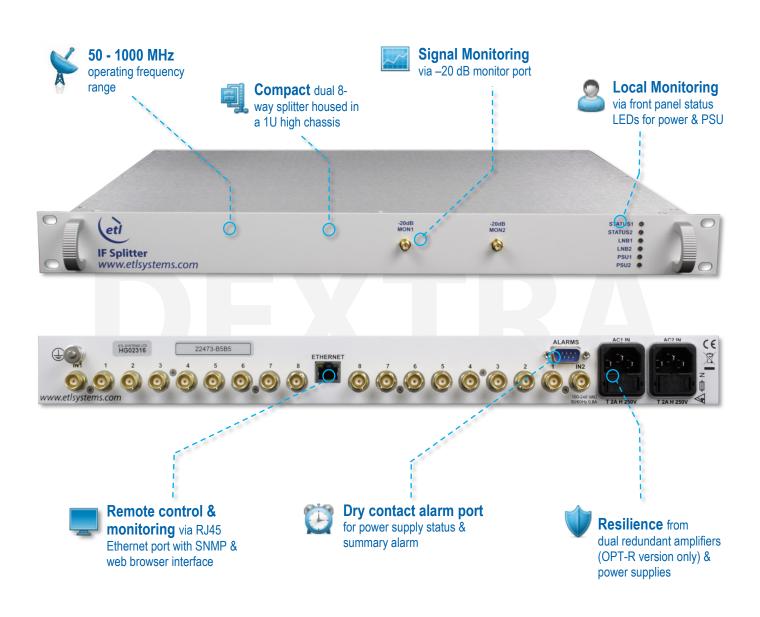# ETL Systems
### Excelling in RF Engineering

# 8-way Dual Active Dextra Series IF Splitter
## with dual redundant amplifiers (OPT-R version)

**Typical applications:**
- Satellite operators, VSAT, teleports & broadcasters
- High resilience RF distribution where optimum satellite signal quality is required

**50 - 1000 MHz** operating frequency range

**Compact** dual 8-way splitter housed in a 1U high chassis

**Signal Monitoring** via –20 dB monitor port

**Local Monitoring** via front panel status LEDs for power & PSU



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

**Dry contact alarm port** for power supply status & summary alarm

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

## Technical specifications and operating parameters

| RF Parameters | | | | | |
|---|---|---|---|---|---|
| Capacity | Dual 8-way splitter | | | | |
| Frequency Range | 50-1000 MHz  (IF) | | | | |
| Front Panel Monitor | 50Ω SMA | -20 dB, 16 dB return loss | | | |
| RF Connectors & Impedances | 50Ω SMA | 50Ω BNC | 50Ω N-type | 75Ω BNC | 75Ω F-type |
| Gain | 0 ±1.2 dB Mean across band | | | | |
| Gain Flatness — Full Band | ±1.5 dB | ±1.5 dB | ±1.8 dB | ±2.0 dB | ±2.0 dB |
| Gain Flatness — Any 36MHz | ±0.3 dB | ±0.3 dB | ±0.35 dB | ±0.5 dB | ±0.5 dB |
| Input Return Loss — Typical | 20 dB | 20 dB | 20 dB | 20 dB | 20 dB |
| Input Return Loss — Minimum | 16 dB | 16 dB | 16 dB | 16 dB | 16 dB |
| Output Return Loss — Typical | 21 dB | 21 dB | 21 dB | 21 dB | 21 dB |
| Output Return Loss — Minimum | 16 dB | 16 dB | 16 dB | 16 dB | 16 dB |
| Isolation @ 70 MHz — Typical | 30 dB | 30 dB | 30 dB | 30 dB | 30 dB |
| Isolation @ 70 MHz — Minimum | 20 dB | 20 dB | 20 dB | 20 dB | 20 dB |
| Isolation @ 1000MHz — Typical | 21 dB | | | | |
| Isolation @ 1000MHz — Minimum | 16 dB | | | | |
| Group Delay Variation — Full Band | 2 ns maximum | | | | |
| Group Delay Variation — 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 | |
| Noise Figure | 15 dB (typical) | | | | |
| Output 1dB GCP | 0 dBm | | | | |
| OIP3 | +10 dBm | | | | |
| 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 feet AMSL (above mean sea level) |

| Power | | |
|---|---|---|
| PSU Power | 85-264Vac 50/60Hz | Fused 2A |
| AC Consumption | <15 W | At steady state |
| LNB Power | None | |
| PSU Redundancy | Dual redundant with dual IEC inlets. | Diode OR. Not hot swap. |

| System Control | |
|---|---|
| Monitoring & Remote Control | RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP & ETL proprietary TCP protocol |
| Alarms | Dry contact, change-over via 9-way D-type. Available alarms are: PSU and summary alarm.  Full status & alarms are also available via the Ethernet interface. |
| Display | Tri colour LEDs to indicate PSU & LNB status via front panel. |

| 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.