ETL Systems
*Excelling in RF Engineering*

Model Number:
C0801S1UIA-22477-xxxx

# 8-way Single IF-Band Active Dextra Series Combiner with dual redundant amplifiers (OPT-R version) -20dB monitoring port

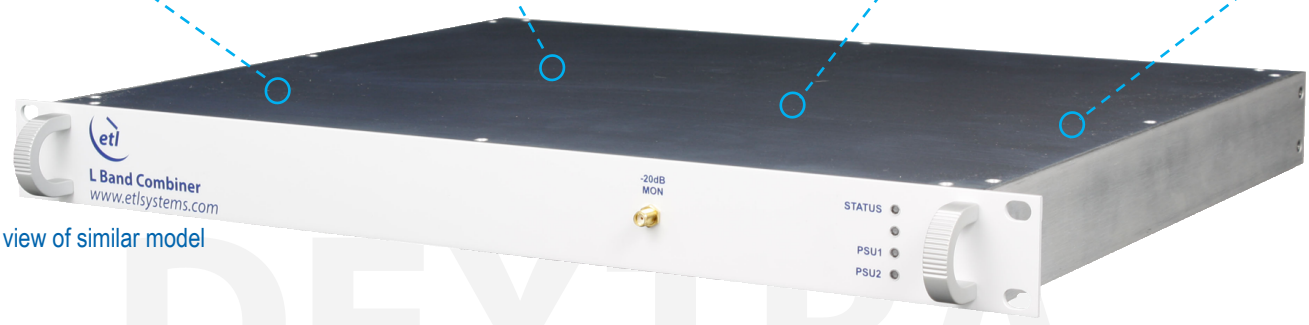
**Typical applications:**
- Satellite operators, VSAT, teleports, and broadcasters
- High resilience RF distribution, and optimum satellite signal quality
- Redundancy applications for remote satellite ports

**50 - 1000 MHz** operating frequency range

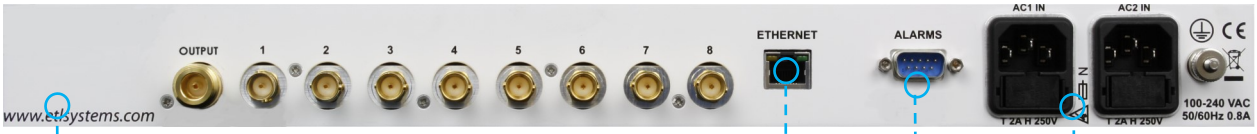
**Resilience** from dual redundant amplifiers (OPT-R)

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

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




Front view of similar model




**Compact** housed in a 1U high chassis

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

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

**Reliability** from dual redundant power supplies

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## Technical specifications and operating parameters

| RF Parameters | | | | | | |
|---|---|---|---|---|---|---|
| Capacity | | 8 way Combiner | | | | |
| Frequency | | 50 to 1000MHz (IF) | | | | |
| Connector & impedances | | 50Ω SMA | 50Ω N-Type | 50Ω BNC | 75Ω BNC | 75Ω F-Type |
| Gain | | 0±1.0 dB Mean across band | | | | |
| Gain flatness | Full band | ±0.8 dB | ±0.8 dB | ±0.8 dB | ±1.0 dB | ±1.0 dB |
| | Any 36MHz | ±0.25 dB | ±0.25 dB | ±0.25 dB | ±0.3 dB | ±0.3 dB |
| Input Return Loss | Typical | 21 dB | 21 dB | 21 dB | 21 dB | 21 dB |
| | Minimum | 16 dB | 16 dB | 16 dB | 16 dB | 16 dB |
| Output Return Loss | Typical | 20 dB | 20 dB | 20 dB | 20 dB | 20 dB |
| | Minimum | 16 dB | 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) | | | | |
| Options | OPT-R | Dual redundant amplifier<br>Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring. | | | | |
| Isolation at 70MHz | Typical | 30 dB | 30 dB | 30 dB | 30 dB | 30 dB |
| | Minimum | 20 dB | 20 dB | 20 dB | 20 dB | 20 dB |
| Isolation at 1000MHz | Typical | 21 dB | 21 dB | 21 dB | 21 dB | 21 dB |
| | Minimum | 16 dB | 16 dB | 16 dB | 16 dB | 16 dB |
| Noise Figure | | 24 dB | | | | |
| Output 1dB GCP | | +10 dBm | | | | |
| OIP3 | | +20 dBm | | | | |
| OIP2 | | +30 dBm | | | | |
| 3rd Order intermodulation level | | -40 dBc | With 2 equi-magnitude -13 dBm carriers. Total power -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. Relative Humidity. |
| Altitude | 10,000 feet AMSL |

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

| System Control & Alarms | | |
|---|---|---|
| Local Control | | Via Front Panel LCD |
| Remote Control | | Via RJ45 Ethernet port, TCP/IP, SNMP & Web browser interface. |
| Monitoring | Local | Indication LEDs with an SMA monitor port (on front panel)<br>PSU and Summary dry contact alarms. |
| | Remote | Alarms: Dry contact, change-over via 9-way D-type. Full status and alarms are also available via the Ethernet interface. |

| Physical | |
|---|---|
| Dimensions | 1U high x 350mm deep x 19” wide |
| Weight | 3.05 kg |
| Colour | RAL9003- White (semi-matte) |

PRELIMINARY SPECIFICATIONS

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.

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