

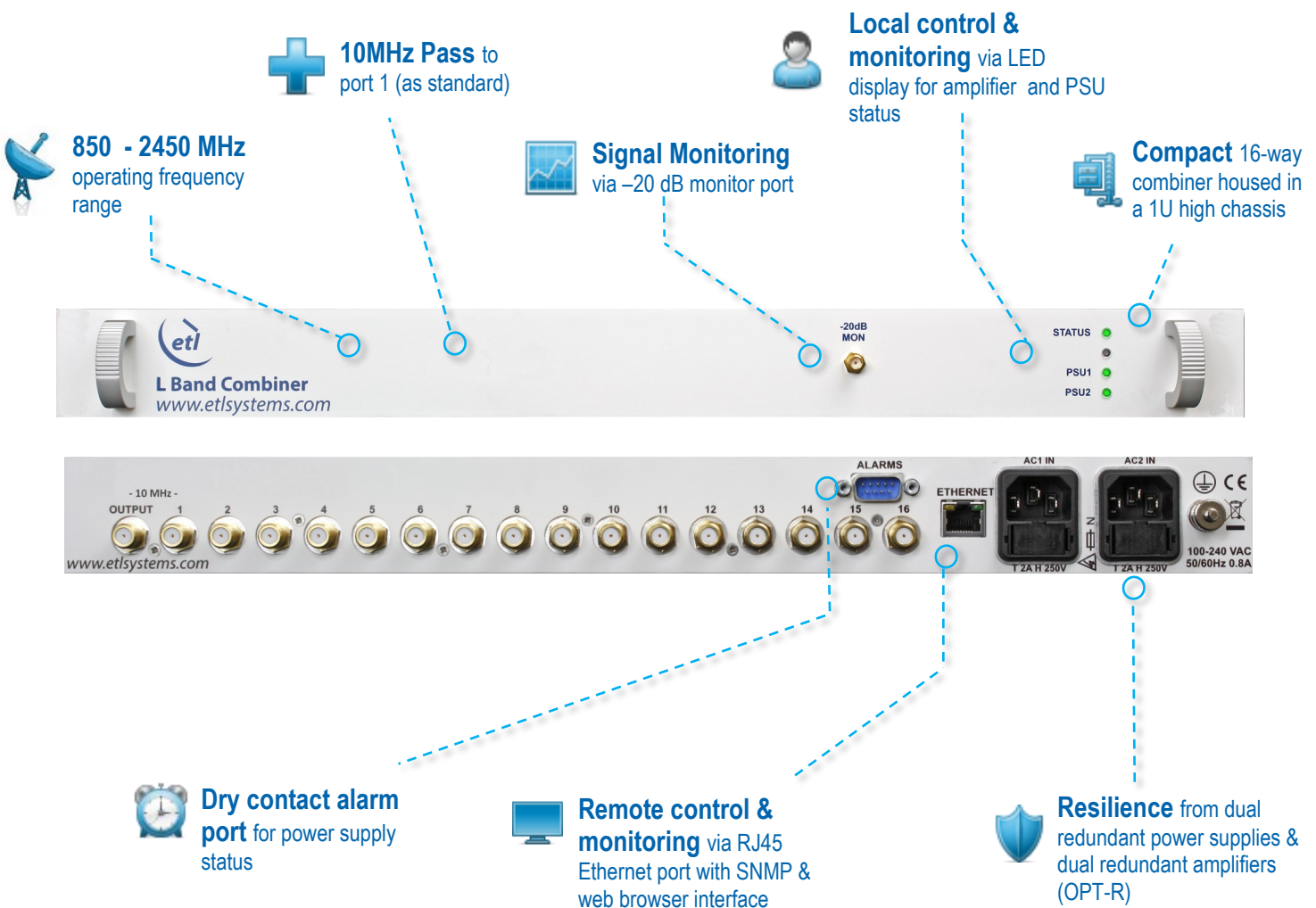


# 16-Way Single L-Band Active Dextra Series Combiner

with 10MHz pass to port 1, dual redundant amplifiers (OPT-R) & DC pass to port 1 (OPT-D)

**Typical applications:**

- Satellite operators, VSAT, teleports & broadcasters
- High resilience RF distribution, & optimum satellite signal quality





**Technical specifications and operating parameters**

| RF Parameters                               |  |   |  |         |         |
|---|--|---|--|---------|---------|
| Capacity                                    | 16-way Combiner                        |   |  |         |         |
| Frequency                                   | 850 to 2450MHz                         |   |  |         |         |
| Front Panel Monito                          | 50Ω SMA                                |   |  |         |         |
| RF Connector & Impedances                   | 50Ω BNC                                | 50Ω SMA   | 75Ω F-Type   | 75Ω BNC |         |
| Gain (dB)                                   | 0±1.0 Mean across band                 |   |  |         |         |
| Gain flatness                               | Full band                              | ±0.8 dB   | ±0.8 dB  | ±1.0 dB | ±1.0 dB |
|   | Any 36MHz                              | ±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                                | 14 dB   | 14 dB  | 14 dB   | 14 dB   |
| Output Return Loss                          | Typical                                | 20 dB   | 20 dB  | 20 dB   | 20 dB   |
|   | Minimum                                | 14 dB   | 14 dB  | 14 dB   | 14 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. |  |         |         |
|   | OPT-D                                  | DC Pass port 1 to common port   |  |         |         |
|   | OPT-RD                                 | Dual redundant amplifier and DC pass port 1   |  |         |         |
| 10MHz Insertion Loss                        | <2dB                                   |   |  |         |         |
| Isolation 850-2250MHz                       | Typical                                | 28 dB   | 28 dB  | 28 dB   | 28 dB   |
|   | Minimum                                | 24 dB   | 24 dB  | 24 dB   | 24 dB   |
| Isolation 2250-2450MHz                      | Typical                                | 28 dB   | 28 dB  | 24 dB   | 24 dB   |
|   | Minimum                                | 24 dB   | 24 dB  | 22 dB   | 22 dB   |
| Noise Figure                                | 25 dB                                  |   |  |         |         |
| Output 1dB GCP                              | +10 dBm                                |   |  |         |         |
| OIP3  | +20 dBm                                |   |  |         |         |
| OIP2  | +40 dBm                                |   |  |         |         |
| 3 <sup>rd</sup> Order intermodulation level | -40 dBc                                |   | With 2 equi-magnitude -13dBm carriers. Total power -10dBm. |         |         |
| Input RF Power                              | 16 dBm                                 |   | Absolute maximum   |         |         |
| In Band Spurious                            | < -80dBm                               |   |  |         |         |

| 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 (above mean sea level) |

| Power          |                                      |                        |
|----------------|--------------------------------------|------------------------|
| PSU Power      | 85-264Vac 50-60Hz                    | Fused 2A               |
| LNB Power      | None                                 |                        |
| PSU            | Dual redundant with dual IEC inlets. | Diode OR. Not hot-swap |
| AC Consumption | <20W                                 | At steady state        |

| System Control & Alarms       |  |
|-------------------------------|--|
| Alarms                        | Dry contact, change-over via 9-way D-type. Available alarms are: PSU supply. Full status and alarms are also available via the Ethernet interface. |
| Remote Control and Monitoring | Via RJ45 port with 10baseT/100baseTX Ethernet offering web browser access SNMP, and ETL Proprietary TCP Protocol                                   |
| Display                       | Tri coloured LEDs to indicate PSU and amplifier status.  |

| Physical   |                                 |
|------------|---------------------------------|
| Dimensions | 1U high x 350mm deep x 19" wide |
| Weight     | 3.05 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.