

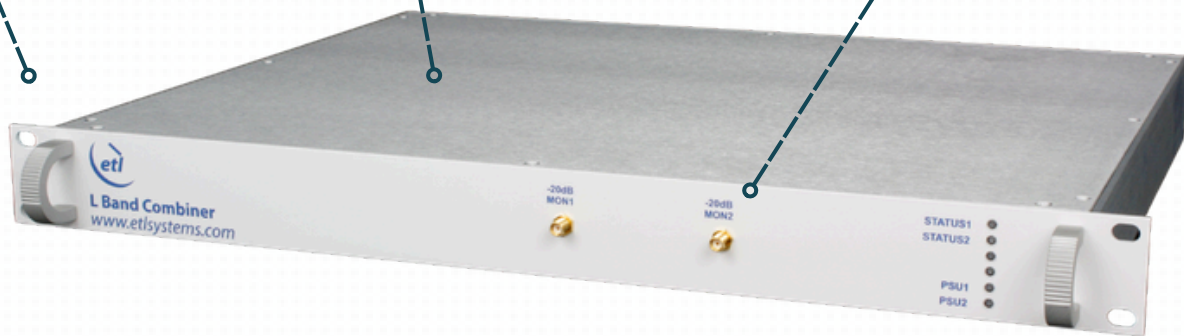
4-way Dual L-band Active Dextra Series Combiner

With dual redundant amplifiers (OPT-R version) & -20 dB monitoring port

850-2450MHz
operating frequency
range

Compact
Dual 4-way housed in a 1U
high chassis

Signal monitoring
via -20dB monitor port



Local Monitoring
via from panel status
LEDs for amplifier &
PSU

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

Resilience
from dual redundant
amplifiers (OPT-R
version)

Dry contact alarm
port
for amplifier & power
supply status

| RF Parameters | | | | | |
|---|-----------|---|----------|--|---------|
| Capacity | | Dual 4-way combiner | | | |
| Frequency Range | | 850 to 2450MHz | | | |
| Front Panel Monitor | | 50Ω SMA -20dB, 16dB return loss | | | |
| Rf Connector & impedances | | 50Ω BNC | 50Ω SMA | 75Ω F-Type | 75Ω BNC |
| Gain | | 0±1.0 dB 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 | 21dB | 21dB | 21dB | 21dB |
| | Minimum | 16dB | 16dB | 16dB | 16dB |
| Output Return | Typical | 20dB | 20dB | 20dB | 20dB |
| | Minimum | 16dB | 16dB | 16dB | 16dB |
| 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. Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring. | | | |
| Isolation 850-2250MHz | Typical | 28dB | 28dB | 28dB | 28dB |
| | Minimum | 24dB | 24dB | 24dB | 24dB |
| Isolation 2250-2450MHz | Typical | 28dB | 28dB | 24dB | 24dB |
| | Minimum | 24dB | 24dB | 22dB | 22dB |
| Noise Figure | 50Ω | 18dB | | | |
| | 75Ω | 17dB | | | |
| Output 1dB GCP | | +12dBm | | | |
| OIP3 | | +10 dBm | | | |
| OIP2 | | +30 dBm | | | |
| 3 rd Order intermodulation level | | -40 dBc | | With 2 equi-magnitude -13dBm carriers. Total power -10dBm. | |
| Input RF Power | | 16 dBm | | Absolute maximum | |
| In Band Spurious | | < -80 dBm | | | |

| Environmental | | |
|-------------------------------|---|------------------------|
| Temperature | 0 to 50°C Operating | -20°C to +75°C Storage |
| Location | Indoor use only | |
| Humidity | 85% non-condensing. Relative Humidity. | |
| Altitude | 10,000 feet AMSL | |
| Power | | |
| PSU Power | 85-264Vac 50-60Hz | Fused 2A |
| PSU | Dual redundant with dual IEC | 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 | Indication LEDs with a -20dB monitor port. PSU and Summary dry contact alarms on front panel. 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 on front panel. | |
| Communication | RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP, and ETL Proprietary TCP Protocol | |
| Physical | | |
| Dimensions | 1U high x 350mm deep x 19" wide | |
| Weight | 3.05 kg | |
| Colour | White 00-E-55 semi-gloss | |



| Physical | | |
|-------------------------|--|------------------------|
| Weight | 2kg | |
| Dimensions | 1U high x 200mm deep x 19" wide | |
| Colour | White 00-E-55 semi gloss | |
| Environmental | | |
| Temperature | 0 to 50°C Operating | -20°C to +75°C Storage |
| Location | Indoor use only | |
| Humidity | 85% non-condensing. Relative Humidity. | |
| Altitude | 10,000 feet AMSL | |
| Power | | |
| PSU Power | 85-264Vac 50-60Hz | Fused 2A |
| PSU | Dual redundant with dual IEC | Diode OR. Not hot-swap |
| AC Consumption | <15W | At steady state |
| System Control & Alarms | | |
| Display | Tri colour LEDs to indicate PSU & amplifier status on front panel. | |
| Remote Control | Via RJ45 Ethernet port, TCP/IP, SNMP & Web browser interface. | |
| Alarm | Dry contact, change-over via 9 way D type. Available alarms are: PSUs & summary alarm. Full status & alarms are also available via the Ethernet interface. | |

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.