16-way Single L-band Active DEXTRA Series Splitter

With switchable LNB powering, monitoring port, 10MHz pass, and optional dual redundant amplifiers (OPT-R) and DC pass (OPT-D)

The Dextra splitter range has been designed for high resilience RF distribution, and optimum satellite signal quality. The splitters benefit from excellent RF performance and compact form factor as well as advanced functionality.

Options: Dextra splitters can be specified with single amplifier or hot/cold-standby dual-redundant amplifier options, with DC pass (port one to common port), or with both. Please specify OPT-R for redundant amplifier option, OPT-D for DC pass, and OPT-RD for both.

Local monitoring
Front panel LEDs give status of PSUs & LNB

Extended L-band range
850 - 2450MHz

LNB powering
13/18V and 22KHz tone

10MHz pass
to port 1 only

Remote control & monitoring
via RJ45 Ethernet port with SNMP & web browser with settable alarm thresholds for LNB

RF Parameters		
Frequency Range		850 to 2450 MHz
Capacity		16-way
Front Panel Monitor		50Ω SMA (-20 dB, 16 dB return loss)
Gain (Mean across band)		0±1.0 dB
Flatness	Full band	±0.8 dB
	Any 36MHz	±0.25 dB
Input Return Loss	Typ.	20 dB
	Min.	16 dB
Output Return Loss	Typ.	21 dB
	Min.	16 dB
Group Delay	Full band	2ns max.
	Any 36MHz	1ns max.
10MHz Insertion Loss		<1 dB (port 1 to common port only)
Isolation	850-2250MHz	28 dB typ., 24 dB min.
	2250-2450MHz	28 dB typ., 24 dB min.
Noise Figure		10 dB typ.
1dB GCP		0 dBm typ.
OIP3		10 dBm
OIP2		30 dBm
3rd Order Intermodulation Level		-40 dBc (with 2 equi-magnitude -13 dBm carriers. Total power -10 dBm)
In Band Spurious		<-80 dBm
System Control		
Display		Tri colour LEDs to indicate PSU, LNB supply and amplifier status
Monitoring & Remote Control		RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP, and ETL Proprietary TCP Protocol
Alarms		Dry contact, change-over via 9-way D-type. Available alarms are: PSU and LNB supply. Full status and alarms are also available via the Ethernet interface
Power		
AC Power		85-264V AC (50/60Hz)
PSU Redundancy		Dual redundant with dual IEC inlets
LNB Power		0/13V/18Vdc, 500mA via common (RF in) port, over current protected at 800mA typical. 22kHz tone on/off Ethernet port remote setting of LNB voltage and 22KHz tone; and LNB current alarm threshold
Input RF Power		16 dBm absolute max.
AC Consumption		<20W (at steady state with max rated LNB current supplied)
Hot-swap PSU		None

Physical & Environmental	
Dimensions	1U high x 350mm deep x 19" wide
Weight/Colour	3 kg / RAL9003 - White (semi-matte)
Temperature	Operating: 0 to 50˚C / Storage: -20˚C to +75˚C
Location/Humidity	Indoor use only — 85% non-condensing
Altitude	10,000ft AMSL

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.
Note 3: Specification quoted above is for 50 Ohm SMA. Other variants are available, please enquire. Performance may vary across variants.