## Model Number: D0104S1ULA-22410

## 4-way Single L-band Active Dextra Series Splitter

With dual redundant amplifiers (OPT-R version), switchable LNB powering & -20 dB monitoring port



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.

<ul> <li>Typical applications:</li> <li>Satellite operators, VSAT, teleports, and broadcasters</li> <li>High resilience RF distribution, and optimum satellite signal quality</li> <li>850-2450 MHz to cover Ka-band and HTS applications</li> </ul>	<ul> <li>Benefits &amp; features:</li> <li>Highly resilient solution minimising the risk of expensive downtime for the satcoms user</li> <li>Dual redundant power supplies</li> <li>LNB current monitoring</li> <li>Dual redundant amplifiers (option)</li> </ul>
<ul> <li>Advanced functionality:</li> <li>0/13/18V LNB powering (±22 KHz tone)</li> <li>LNB current monitoring</li> <li>Customer settable alarm thresholds for LNB current</li> <li>Dual redundant amplifiers (option)</li> <li>20 dB monitor port on the front panel</li> <li>Web browser access (and SNMP) for control and monitoring</li> <li>Compact 1RU 19" chassis</li> </ul>	<ul> <li><b>RF performance:</b></li> <li>Specified to <b>ensure optimum</b> signal quality with high throughput / high bandwidth satcoms.</li> <li>850-2450 MHz operating range</li> <li>Excellent Gain flatness (frequency response)</li> <li>High return loss</li> <li>High linearity</li> <li>Low noise figure</li> </ul>

**Options:** Dextra splitters can be specified with single amplifier or hot/cold-standby dual-redundant amplifier options. Please specify OPT-R for redundant amplifier option. This is remote configurable. The range covers 4-way and 8-way splitters and combiners in both single and dual configurations. 16-way splitters and combiners are available as single units. All these are supplied in a 1RU case for space efficient rack mounting.

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**RF Engineering** and Custom Build

Fused 2A

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.

At steady state. With max rated LNB

current supplied

Diode OR

Absolute maximum

Power

85-264Vac 50-60Hz

Dual redundant PSUs with dual IEC

System Control

Redundant amplifiers, LNB current and

power supplies monitored via RJ45 port with 10baseT/100baseTX Ethernet offering

<20W

16dBm

inlets.

No

4-way Single L-band Active Dextra Series Splitter

Technical specifications and operating parameters

## **Preliminary Specification**

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AC Power

Consumption

Input RF Power

Hot-swap PSU

Monitoring & Remote Control

LNB Power

AC

PSU

RF Parameters						_	
Capacity		4-way Spli	itter	r			
Front panel monitor		50Ω SMA -20dB, 16dB return loss					
Frequency		850-2450MHz					
Connector & impedances		50 <b>Ω</b> BNC	50 <b>Ω</b> SMA	50 <b>Ω</b> N-type	75 <b>Ω</b> F-type	75 <b>Ω</b> BNC	
Gain Flatness	850-2450 MHz	±0.8 dB	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB	
	Any 36 MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB	
Input	Typ.	20 dB	20 dB	20 dB	20 dB	20 dB	
return loss	Min	16 dB	16 dB	16 dB	16 dB	16 dB	
Output	Typ.	21 dB	21 dB	21 dB	21 dB	21 dB	
return loss	Min	16 dB	16 dB	16 dB	16 dB	16 dB	
Gain		0 ± 1.0 dB Mean across band					
Group Delay	850-2450 MHz	2 ns maximum					
	Any 36 MHz	1 ns maximum					
Amplifier Redundancy (Option OPT-R)		Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch over based on amplifier current monitoring.					
Isolation		25 dB	Min. Between any two output ports				
Noise	50Ω	10 dB					
figure	75Ω	12 dB					
Output 1d	3 GCP	+5 dBm					
OIP3 +10 dBm							
OIP2 +30 dBm		+30 dBm					
3rd order intermodulation level -4		-40 dBc	With 2 equi-magnitude –13dBm carriers. Total power -10dBm.				
In Band Spurious		<-80 dBm					

		web browser access, SNMP and ETL proprietary TCP protocol
ndancy r current	Alarms	Dry contact, 9-way D-type alarm port for PSU and LNB supply. Full status and alarms are also available via the Ethernet interface.
ports	Display	Front panel LEDs for PSU, LNB and amplifier status.
		Environmental
		Linviolimental
	Operating temperature	0 to 50°C
m carriers.	Location	Indoor use only
	Storage temperature	-20°C to +75°C
	Humidity	85% non-condensing
		Options
	Please add the your required co BNC 50 $\Omega$ - B5B5 BNC 75 $\Omega$ - B7B7 N-type 50 $\Omega$ - N F-type 75 $\Omega$ - F7 SMA 50 $\Omega$ - S555	5 7 5N5 F7
	Please use suffix amplifiers	<b>OPT-R</b> to specify the option of dual redundant

Physical		
Dimensions	1U high x 350mm deep x 19" wide	
Weight	3 Kg	
Colour	White 00-E-55 semi-gloss	



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V.1.1.1 E&OE