

Hybrid 8-way IF Active Single Dextra Series Splitter &

Combiner with dual redundant amplifiers (OPT-R version), DC pass (OPT-D version), switchable LNB powering on splitter & -20 dB monitor port

Typical applications:

- Satellite operators, VSAT, teleports and broadcasters
- High resilience RF distribution where optimum satellite signal quality is required
- 20-1000 MHz to cover Ka-band and HTS applications







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Model Number: H0108D1UIA-22481-XXXX

Preliminary Specification

Technical specifications and operating parameters

		RF Paramet	ters				
Capacity		8-way Splitter	8-way Splitter and Combiner				
Connector & impedances		50Ω BNC	50Ω SMA	75Ω F-Type	75Ω BNC		
Frequency Range		20-200 MHz					
	Gain			0±1.0 dB mean across band			
	Gain Flatness Full Band	±0.6 dB	±0.6 dB	±0.8 dB	±0.8 dB		
	Gain Flatness Any 36MHz	±0.25 dB	±0.25 dB	±0.4 dB	±0.4 dB		
Frequency Range			50-	1000 MHz			
	Gain	0±1.2 dB mea	in across band				
	Gain flatness Full Band	±1.5 dB	±1.8 dB	±2.0 dB	±2.0 dB		
	Gain flatness Any 36MHz	±0.3 dB	±0.35 dB	±0.5 dB	±0.5 dB		
Group Delay Variation	Full Band	2 ns Maximum					
Group Delay Variation	Any 36MHz	1 ns Maximum					
Amplification		Single path an	Single path amplifier				
Amplifier Redundancy (Option OPT-R)		Dual redundant, selectable hot or cold standby, 1:1 redundancy wi auto switch-over based on amplifier current monitoring					
DC Pass (Option OPT-D)		DC pass port 1 to common port					
Amplifier Redundancy & DC Pass (Option OPT-RD)		Dual redundant amplifier and DC pass port 1					
Front Panel Monitor		50Ω SMA (-20dB, 16dB return loss typical)					
Isolation @ 70MHz (Minimum between any 2	Typical	30dB					
multi-ports)	Minimum	20dB					
		Splitter					
Input Return Loss	Typical	20 dB	20 dB	20 dB	20 dB		
input Return 2000	Minimum	16 dB	16 dB	16 dB	16 dB		
Output Return Loss	Typical	21 dB	21 dB	21 dB	21 dB		
Output Return Loss	Minimum	16 dB	16 dB	16 dB	16 dB		
Noise Figure dB	50Ω	15 dB					
(Typical)	75Ω	16 dB	16 dB				
Output 1dB Compression		0 dBm					
OIP3		+10 dBm					
Input RF Power		16 dBm (Absolute maximum)					
In Band Spurious		<-80 dBm	<-80 dBm				
		Combiner					
Input Poturn Loss	Typical	21 dB	21 dB	21 dB	21 dB		
Input Return Loss	Minimum	16 dB	16 dB	16 dB	16 dB		
	Typical	20 dB	20 dB	20 dB	20 dB		
Output Return Loss	Minimum	16 dB	16 dB	16 dB	16 dB		
Noise Figure	Typical	22 dB					
Output 1dB Compression		+10 dBm					
OIP3		+20 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	ure -20°C to +75°C	
Humidity	85% non-condensing	
Altitude	10,000 feet AMSL	

Physical			
Weight	3.05Kg		
Dimensions	1U high x 350mm deep x 19" wide		
Colour	RAL9003 - White (Semi-Matte)		

System Control				
Display	Front panel Tri colour LED's for PSU, LNB Power & amplif condition			
Remote Control & Monitoring	Via RJ45 Ethernet port with 10baseT/100baseTX Ethernet offering web browser access, SNMP and ETL proprietary TCP protocol (Redundant amplifiers, LNB current and power supplies monitored)			
Alarms	Dry contact change over via 9-way D-type. Alarm port on rear panel for PSU & LNB supply. Full status and alarms are also available via the Ethernet interface.			

Power				
AC Consumption	<35 W	At steady state with max rated LNB current supplied		
PSU Power	100-240Vac 50/60Hz . Fused 2A	Dual mains inlet		
LNB Power (RX) - Splitter Only	0/13V/18Vdc, 500mA max via common (RF in) port, over current protected at 800mA typical. 22KHz tone on/off enabled/disabled through comms. Monitored, alarms and status available through comms. Thresholds settable by user through comms.			
PSU Redundancy	Dual redundant with dual IEC inlets	Not hot swap		

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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