Hybrid 8-way IF Active Single Dextra Series Splitter & Combiner

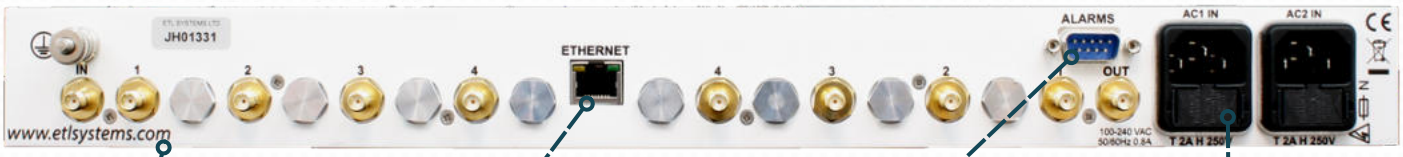
with dual redundant amplifiers (OPT-R version), DC pass (OPT-D version), switchable LNB powering on splitter & -20 dB monitor port.

LNB Powering
13/18V (on split)

20-100MHz
operating frequency range. HTS ready.

Input signal monitoring
with -20dB monitoring port

LNB Current Monitoring
allows customer settable alarm thresholds for LNB



Compact
housed in a 1U high chassis

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

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Resilience
dual redundant power supplies and amplifiers (optional)

RF Parameters					
Capacity		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 mean 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			
	Any 36MHz	1 ns Maximum			
Amplification		Single path amplifier			
Amplifier Redundancy (Option OPT-R)		Dual redundant, selectable hot or cold standby, 1:1 redundancy with 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 multi-ports)	Typical	30dB			
	Minimum	20dB			
Splitter					
Input Return Loss	Typical	20dB	20dB	20dB	20dB
	Minimum	16dB	16dB	16dB	16dB
Output Return Loss	Typical	21dB	21dB	21dB	21dB
	Minimum	16dB	16dB	16dB	16dB
Noise Figure dB (Typical)	50Ω	15dB			
	75Ω	16dB			
Output 1dB Compression		0dBm			
OIP3		+10 dBm			
Input RF Power		16 dBm (Absolute maximum)			
In Band Spurious		<-80 dBm			

Combiner					
Input Return Loss	Typical	21dB	21dB	21dB	21dB
	Minimum	16dB	16dB	16dB	16dB
Output Return Loss	Typical	20dB	20dB	20dB	20dB
	Minimum	16dB	16dB	16dB	16dB
Noise Figure	Typical	22dB			
Output 1dB Compression		+10 dBm			
OIP3		+20 dBm			
Input RF Power		16 dBm (Absolute maximum)			
In Band Spurious		16 dBm (Absolute maximum)			
Environmental					
Operating temperature		0 to 50˚C			
Location		Indoor use only			
Storage temperature		-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)			
Splitter					
Display		Front panel Tri colour LED’s for PSU, LNB Power & amplifier 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.