



4-way Single IF-Band Active Dextra Series Combiner

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

- Typical applications:**
- Satellite operators, VSAT, teleports, and broadcasters
 - High resilience RF distribution, and optimum satellite signal quality
 - Redundancy applications for remote satellite ports

 **50 - 1000 MHz**
operating frequency range

 **Signal monitoring**
via -20dB monitor port


 **Local Monitoring** via
front panel status LEDs
for amplifier & PSU

 **Compact** housed in a
1U high chassis



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

 **Dry contact alarm**
port for amplifier & power
supply status

 **Resilience** from dual
redundant power supplies &
dual redundant amplifiers
(OPT-R)





Technical specifications and operating parameters

RF Parameters						
Capacity	4 way Combiner					
Frequency	50 to 1000MHz (IF)					
Connector & impedances	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type	
Gain (dB)	0±1.0 dB Mean across band					
Gain flatness	Full band	±0.8 dB	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input Return Loss	Typical	21 dB	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	20 dB	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
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 at 70MHz	Typical	30 dB	30 dB	30 dB	30 dB	30 dB
	Minimum	20 dB	20 dB	20 dB	20 dB	20 dB
Isolation at 1000MHz	Typical	21 dB	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Noise Figure	24 dB					
Output 1dB GCP	+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	-20°C to +75°C
Humidity	85% non-condensing. Relative Humidity.
Altitude	10,000 feet AMSL

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
BUC Power	None	
PSU	Dual redundant with dual IEC	Diode OR. Not hot-swap
AC Consumption	<15W	At steady state

System Control & Alarms		
Local Control	Via Front Panel LCD	
Remote Control	Via RJ45 Ethernet port, TCP/IP, SNMP & Web browser interface.	
Monitoring	Local	Indication LEDs with an SMA monitor port. (on front panel) PSU and Summary dry contact alarms
	Remote	Alarms: Dry contact, change-over via 9-way D-type. Full status and alarms are also available via the Ethernet interface. PSU & summary alarm.

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.05 kg
Colour	RAL9003- White (semi-matte)

PRELIMINARY SPECIFICATIONS

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.