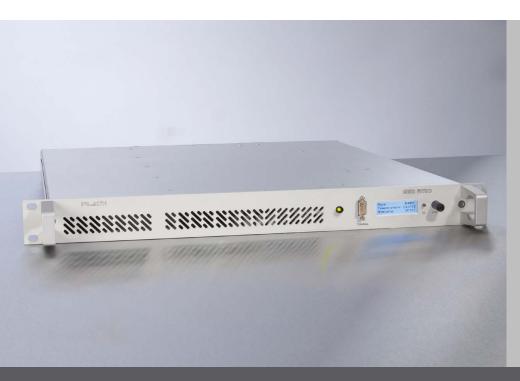
SIR 2110

V/UHF Digital Broadband Tuner



20 to 3000 MHz

Compact high performance wideband receiver for search and interception

The SIR 2110 covers the V/UHF frequency range from 20 to 3000 MHz. Its modular and flexible design allows various configurations to incorporate different scenarios from manual interception to automatic communication intelligence (COMINT).

Additionally to the 20 MHz broadband I/Q data up to four 50 kHz wide DDC channels can be streamed to different addresses. The SIR 2110 provides an excellent dynamic range (IMFDR) of > 80 dB.

Features

- Power density spectrum of 24 MHz bandwidth
- Zoom spectrum (1 kHz frequency resolution)
- Four integrated virtual narrowband receivers (four DDC channels each with 50 kHz)
- Wideband I/Q data output of 20 MHz (I/Q data 16 bit)



Specifications

Characteristics		
Frequency range	20 to 3000 MHz	
Coherent bandwidth	24 MHz analogue / 20 MHz 16 bit I/Q data output	
DDC channels basic version	4 x 50 kHz bandwidth	
Tuning resolution	< 1 Hz	
Gain	automatic, manual or automatic with user defined shift (AGC + M)	
Maximum input level	+15 dBm (non-destructive)	
Noise figure	typ. 9 dB	
MDS (Minimum Detectable Signal)	-135 dBm (at 1 kHz resolution)	
IMFDR 3 (Intermodulation Free Dynamic Range)	> 80 dB	
IP2	> 50 dBm (at 0 dBm and with AGC)	
IP3	> 25 dBm (at 0 dBm and with AGC)	
IF rejection	> 120 dB	
Image rejection	> 110 dB typ.	
Frequency stability	±10 ⁻⁷	
Frequency drift	< ±5* 10 ⁻⁷ ageing/year	

Interfaces	
Antenna input	N-connector female (nominal impedance 50 Ω)
Input for external reference frequency	BNC-female (10 MHz)
Input for time synchronisation	BNC: pulse per second (PPS)
Network interface	2 x Gigabit Ethernet (for control and data)
Service connection	RS-232
Operating voltage	85 to 264 VAC (50/60 Hz)
Maximum power consumption	150 VA
Built In Test Equipment (BITE)	for every internal module, via SNMP interface
MTBF (according to MIL-HDBK)	at least 10,000 hours

Environmental data	
Permissible temperature range: Operating Storage Humidity	0° C to +50° C -40° C to +70° C ≤ 85% (non-condensing)
Environmental standards maintained	EN61010-1:2002 EN61000-6-2:2002 EN61000-6-3:2002

Mechanical data		
Width	19" (482.6 mm)	
Height	1 RU (44.5 mm)	
Depth	490 mm	
Weight	9 kg	

Order reference SIR 4331.1