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SIR 2115

Monitoring receiver

MF

HF

VHF

UHF

SHF

9 kHz – 3000 (6000) MHz

The SIR 2115 is a highly advanced wideband monitoring receiver. It supports a coherent bandwidth of 80 MHz and covers 9 kHz - 3 (6) GHz. With its full RF spectrum support, extremely high-speed scan, digital wideband output, configurable narrowband receiver technology and market leading receiver fidelity and accuracy, the SIR 2115 is ideal for a range of different mission scenarios from manual to automatic interception in COMINT systems.

TECHNICAL HIGHLIGHTS

- coherent bandwidth of 80 MHz (analogue and digital)
- scan speed 100 GHz/s
- excellent noise figure <6 dB typ. (20-1000 MHz); <8 dB typ.(1-3 GHz)
- SFDR ≥90 dB (9 kHz - 20 MHz); ≥80 dB (20-3000 MHz)
- minimum detectable signal -137 dBm @ 1 kHz
- wideband IQ output
- 20 narrowband DDC channels

CUSTOMER ADVANTAGES

- combines the best search and monitoring receivers in a single device
- modular design paired with excellent technical parameters delivers an enhanced operation and maintenance capacity which significantly reduces the Total Cost of Ownership over its lifetime
- the perfect choice for COMINT applications - from mobile to stationary

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RECEIVER

MONITORING
RECEIVER

DIRECTION-FINDING
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ANALYSIS SOFTWARE

SIR 2115	
Frequency range	9 kHz – 3000 (6000) MHz
Coherent analogue bandwidth	30 MHz (HF)/80 MHz (V/U/SHF)
Coherent digital bandwidth	80 MHz
Number of subbands	4
Preselection	10 LP/10 HP
Tuning resolution	< 1 Hz
Gain control	AGC, MGC, AGC+M
Scanning speed	100 GHz/s
Maximum input level	+15 dBm
Noise figure	<8 dB typ. (20 MHz - 1000 MHz) <6 dB typ. (1 GHz - 3 GHz)
Full dynamic range	149 dB
VSWR	<2 : 1
SFDR2 (in-band)/IMFDR	>90 dB (9 kHz - 20 MHz)
MDS (minimum detectable signal)	-137 dBm (@1 kHz frequency resolution)
Image frequency rejection	>130 dB typ.
Intermediate frequency rejection	>120 dB typ.
Internal spurious	none >-120 dBm
IP2	≥ 70 dBm
IP3	≥ 30 dBm
Monitoring options	available
Number of channels	20 narrowband 4 wideband
Bandwidth of channels	narrowband : 6.25/12.5/25/50/100/200/400 kHz wideband I/Q : 1.25/2.5/5/10/20 MHz
Audio demodulation	CW, AM, FM, USB, LSB, ISB (provided by WIN DF)
Audio bandwidth	-
Frequency stability internal reference	±10 ⁻⁷
Frequency drift	<±5 x 10 ⁻⁷
Nominal impedance	50 Ω
BITE	@ module level
Standards	EN61010-1:2002 / EN61000-6-2:2002 / EN61000-6-3:2002
Operating temperature	0° C to +50° C
Storage temperature	-40° C to +70° C
Humidity	≤ 85% (non-condensing)
Protection class	IP 20
Power consumption	85 V – 264 V AC 50/60 Hz, 150 VA
Network interface	1x 10 GBASE-SR, OM3 MM fibre (UDP) 1x LAN 1000 Base-T (TCP/IP)
Weight	10 kg
Size (width/height/depth)	19"/1 RU/490 mm