



TECHNICAL SPECIFICATIONS

Description	Range
Frequency Range	30 to 3000MHz (Extendable to 26.5GHz)
Frequency Resolution	100Hz
Frequency Accuracy	≤ 0.1ppm
Oscillator Phase Noise	-105dBc/Hz@10KHz Offset
Image Frequency Rejection	≥80dB
IF Rejection	≥80dB
Noise Figure	10-12dB typ., f ≤ 2000MHz 12-15dB typ., f > 2000MHz
Internal Spurious Level	-100dBm
Sensitivity	Measurement with Telephone Filter acc. to CCITT Normal Mode
AM :BW = 6KHz, SINAD = 10dB fmod = 1KHz, m = 0.5	≤ 1μV (≤ -107dBm), f ≤ 2000MHz
FM : BW = 15KHz, SINAD = 20dB fmod=1KHz, m = 0.5, deviation = 5KHz	≤ 1.4μV (≤ -104dBm), f = 2000MHz to 3000MHz ≤ 1μV (≤ -107dBm), f ≤ 2000MHz
SSB : BW = 2.4KHz, SINAD = 10dB	≤ 1.4μV (≤ -104dBm), f > 2000MHz
CW : BW = 300Hz, SINAD = 10dB	≤ 0.5μV (≤ -113dBm)
BER	≤ 0.22μV (≤ -120dBm) ≤%1 FSK(2,4,8),PSK(2,4,8) at SNR=15dB ≤%1 QAM16) at SNR=18dB ≤%1 QAM(32) at SNR=25dB ≤%1 QAM(64) at SNR=32dB
IP2	≥55 dBm (linear mode)
IP3 (in Band)	(Low Distortion Mode) ≥ 17dBm, f ≤ 300MHz, ≥ 20dBm, f > 300MHz
Dynamic Range	≥110dB (Offline)/ ≥ 70dB (Online)
ADC Resolution	14Bit
ADC Sample Rate	166MHz
Attenuator	0 to 35dB
AMR & Demodulator	Analog: CW,AM,FM,DSB,ISB,LSB Digital:BPSK,QPSK,8PSK,OQPSK 16QAM,2FSK,4FSK,MSK,GMSK,32QAM,64QAM
Control Interface	LAN 100/1000Mb/s
Instantaneous Bandwidth	Maximum 80MHz (Extendable to 200MHz)
Display Modes	Waterfall, RF Spectrum
Memory Scan Mode	The Receiver Settings can be Programmed for the Monitoring of up to 1000 Channels and Scan Speed up to 100 Channels / s
Search Scan Speed	25GHz/s with 30KHz Resolution
IF Recording Time	3 hours with 40MHz bandwidth
Virtual Narrow Band Channels	(Extendable to 10hour and 200MHz Bandwidth) 8 Simultaneous Channels with Maximum 100KHz Bandwidth (Extendable to 32 Channels)
Hand-off Receivers	8 channels (Extendable to 64)
DS Detection & Analysis	SNR:-12dB, GP=30dB with Short Code
Radio Link Detection and Analyses	Link4, link11, link16 (option)
Frequency Hoping Detection	Maximum 3 Signals with 2500hop/s (Extendable to 10000 hop/s)
Burst Detection	Time length > 400 μS (Extendable to Time Length > 10μS)
Offline Analysis Tools	Bit Analyzer and Protocol Analyzer
Antennas (According to customer requirements)	Omni Active Antenna (20-1300MHz) Vertical Directional Antenna (80MHz-1300MHz) Vertical Directional Active Antenna (1000-3000MHz) Vertical and Horizontal Omni Antenna (1000-3000MHz) Vertical and Horizontal

Environmental and Operational

Environmental Test Standard	Mil-STD-810G
Operation Temperature Range (Indoor)	0°C to 50°C
Operation Temperature Range (Outdoor)	-25°C to +65°C
Storage Temperature Range	-30°C to +70°C
Humidity	80% in 40°C for Indoor Parts 95% in 40°C for Outdoor Parts
Dimensions (W x H x D)	Approx. 85 x 60 x 75cm (One 19" Rack)
Weight	Approx. 120kg
Power Supply	220VAC, Maximum 1KW
MTBF	2000hours
MTTR	20minutes