

S3700 Radio Monitoring Receiver



S3700 is a miniaturized receiver for the grid radio monitoring. S3700 cluster can be used to build a TCP / IP-based spectrum sensing network and provide comprehensive, reliable and flexible wide radio monitoring.

S3700 is capable to capture instantaneous and FH signals. Therefore it can manage intricate and multiple signal-monitoring tasks.

Key Features

- Frequency Range 20MHz - 6GHz.
- 20MHz real time analysis bandwidth.
- 2 RF Input Interfaces.
- Multiple trigger capture functions.
- IQ / FFT data stream output
- 20ns synchronization accuracy and 100ns time-stamp accuracy
- Abundant programming interfaces.
- Small size, easy to install.

Typical Applications

- Grid Radio Monitoring
- Location of Radio Emission

Frequency	
Frequency Range	20MHz - 6GHz
Bandwidth	
Max. Analysis Bandwidth	20MHz
Scan Speed	
Scan Speed	>4GHz/s (RBW 10kHz)
Phase Noise	
CF = 1GHz	< -90dBc/Hz @10kHz
Displayed Average Noise Level (DANL)	
pre-amplifier on	-158dBm/Hz
pre-amplifier off	-135dBm/Hz
Image Rejection	
	> 85dB
Amplitude Accuracy	
	±3.0dB
RF Input Port	
	N (F) (50Ω) , 2 channel
Max. Input Power	
	+20dBm
Antenna Port Isolation	
20 - 600MHz	>40dB
600 - 6000MHz	>30dB

Port VSWR	
	<2.5:1
Data Type	
	I / Q time series or FFT spectral data
Memory Capacity	
	2GB
Clock synchronization	
	GPS
Timestamp Data accuracy	
	<100ns
Data Transmission	
	LAN, RJ-45
GPS Interface	
	TNC (F)
Clock synchronization	
operating Temp. (°C)	-20°C - +55°C (-4°F-122°F)
Power Supply	DC: 12 - 18V
Max. Power Consumption	30W
Weight (kg)	5 kg
Dimension (L×W×H)	295mm×83mm×270mm