

# Easy To Integrate Spectrum Analyzer



## Spectrum Core

Spectrum Compact development kit

- ✓ USB Type-C for data and power
- ✓ Lightweight & small form-factor
- ✓ Remote control via open API
- ✓ Adaptable physical integration
- ✓ -33 °C to +55 °C



# Specification

Frequency				
Frequency Range	10 MHz to 3 GHz		Carrier Offset: 20 kHz	-70 dBc/Hz
Frequency Resolution	10 kHz	SSB Phase Noise t = 20 °C to 30 °C; Fc = 1 GHz	Carrier Offset: 100 kHz	-90 dBc/Hz
Resolution Bandwidth (RBW)	10/30/100/300 kHz		Carrier Offset: 1 MHz	-110 dBc/Hz
Video Bandwidth (VBW)	1/3/10/30 kHz		-	-

Level				
Measurement Range	DANL to +20 dBm			
Dynamic Range, REF = 0	>= 75 dB			
Amplitude Accuracy ATT: 0 dB; Detector: AVG; Input: -50 dBm CW; RBW, VBW: AUTO	20 °C to 30 °C (68 °F to 86 °F)		± 1 dB	
	-33 °C to +55 °C (-27 °F to 131 °F)		± 3 dB	
Maximum Safe Input Level DC voltage: 0 V	LNA ON	LNA OFF		
	ATT: 0 dB	+10 dBm	+20 dBm	
	ATT: 30 dB	+25 dBm	+25 dBm	
Typical Actual DANL ATT: 0 dB, Detector: AVG; REF: -12 dB; Termination 50 Ω; Trace: 16AVG, 20 °C to 30 °C	LNA ON	LNA OFF		
	RBW: 10 kHz; VBW: 1 kHz	10 MHz to 30 MHz	< -123 dBm	< -103 dBm
		30 MHz to 3 GHz	< -125 dBm	< -105 dBm
RBW: 30 kHz; VBW: 1 kHz			< -123 dBm	< -107 dBm
RBW: 100 kHz; VBW: 3 kHz			< -119 dBm	< -102 dBm
RBW: 300 kHz; VBW: 10 kHz			< -114 dBm	< -98 dBm

General Data	
Data and Power Interface Input voltage	USB Type-C, 5 VDC, 3A
Additional Power input	USB Type-C, 5 VDC, 3A
Operating temperature	-33 °C to +55 °C (-27 °F to 131 °F)
Dimensions	135 mm x 84 mm x 28 mm (5.32 in x 3.31 in x 1.1 in)
Weight	400 g (14.11 oz)
Ingress Protection	IP54
Impedance	50 Ω (nom.)
Connector	SMA F
VSWR	< 1.5
Input attenuator	0 dB to 30 dB, in 1 dB steps

## Solutions

### Industry



### Satellite Communications



### Defense



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