DATA SHEET

RFEYE STORMCASE 100-18

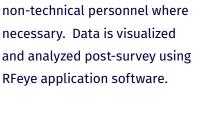
MAN-PORTABLE SPECTRUM MONITORING SYSTEM

Mission-ready integrated solution for standalone spectrum surveillance and mobile monitoring operations.

The RFeye Stormcase 100-18 is a man-portable integrated system designed for easy mobile spectrum monitoring from a fully autonomous and ruggedized standalone unit. Built into a tough storm case with thermostatically-controlled fans, the system includes a Node 100-18, internal and external antenna ports, highperformance rechargeable battery and integrated SSD memory for high-volume data collection during mobile field operations.

Embedded data logging software applications are typically preprogrammed with the required measurement profile prior to deployment, allowing autonomous spectrum surveillance

non-technical personnel where necessary. Data is visualized and analyzed post-survey using





STORMCASE 100-18 SPECIFICATIONS

Receiver	
Integrated receiver	1 x Node 100-18
Frequency	0 kHz +0 0 CHz
Range	9 kHz to 8 GHz
Noise figures at maximum sensitivity	
9 kHz to 0.12 GHz	12 dB typical
0.12 GHz to 6 GHz	8.5 dB typical
5 GHz to 10 GHz	10.5 dB typical
10 GHz to 18 GHz	13 dB typical
Phase noise	
Receiver input at ≤ 0.5 GHz	≤ -125 dBc/Hz at 20 kHz offset
Receiver input at > 1 GHz	≤ -115 dBc/Hz at 20 kHz offset
Signal analysis	
Instantaneous bandwidth	100 MHz
Tuning resolution	1 Hz
Internal frequency reference	
Initial accuracy @ 25°C	±0.1 ppm typical
Stability over temperature	±0.3 ppm typical
Ageing	±0.04 ppm per day
Programmable sweep modes	
Sweep speed at 2 MHz RBW	390 GHz/s typical
Sweep speed at 61 kHz RBW	320 GHz/s typical
User programmable modes	Continuous, single timed,
	user trigger and adaptive
Trigger-on-event modes	User defined masks,
	actions and alarms
Sampling	
Resolution	16 bits per channel (I&Q)
Rate	125 MS/s I&Q
Third order intercept points with	ACC
≤ 1 GHz	
> 1 GHz > 1 GHz to ≤ 6 GHz	+ 20 dBm typical + 15 dBm typical
> 1 GHZ to ≤ 6 GHZ > 6 GHz to ≤ 18 GHz	+ 20 dBm typical
> 0 GHZ tO \$ 10 GHZ	+ 20 uBili typicat
Local oscillator	
Re-radiation	≤ -90 dBm typical
Frequency references	
Selectable	GPS Internal or external
Optional:	GPS Holdover Reference
Internal input	10 MHz ±10 ppm

Processor sub-system	
CPU	Intel E3845 quad core
System software	
Boot firmware	BIOS
Operating system	Linux, kernel v2.6
Data storage	
Removable SSD	512 GB (1 TB option)
I/O Ports	, , ,
RF input (External)	3 x N-type, 9 kHz - 18 GHz
GPS (External)	N-type (by-passable with
	internal antenna via Int/Ext patch)
DC Power (External Input)	1 x 4-pin Amphenol MS 3102
	series
Network (External)	1 x 1 GigE
Universal Serial Bus (Internal)	1 x USB 2.0
Data Logger	Internal control switch
	and status LEDs
Power	
Power Adapter 65W (External)	90-264 VAC input, 24VDC
-	2.7 A output
Battery Charger (External)	Universal, 100-240VAC
Battery (Internal)	9.9 Ah Lithium-ion,
	rechargeable
	5 hrs. nominal operation.
Optional:	>10 hrs. operation with ext
High Capacity Battery Pack	Hot-swappable batteries
Power consumption	
Nominal @ 20°C	50 W
Maximum	65 W
Environmental	
Operating temperature	-30 to +50°C (-22 to 122°F)
Storage temperature	-40 to +71° C (-40 to 160° F)
Ingress protection	IP55 minimum
Mechanical	
Dimensions	490 x 390 x 230 mm
	(19.3 x 15.4 x 9.1 inches)
Weight (case only - no battery)	14 kg (31 lbs)
Weight (single 9.9 Ah battery)	1.5 kg (3.3 lbs)
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