DATA SHEET

RFEYE STORMCASE 100-8

MAN-PORTABLE SPECTRUM MONITORING SYSTEM

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

The RFeye Stormcase 100-8 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 100-8, internal and external antenna ports, high-performance 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 and

surveying operations to be performed by non-technical

personnel where necessary. Data is visualized and analyzed post-survey using RFeye application software.



STORMCASE 100-8 SPECIFICATIONS

Receiver	
Integrated receiver	1 x Node 100-8
Frequency	
Range	9 kHz to 8 GHz
Noise figures at maximum sensit	
9 kHz to 0.1 GHz	10 dB typical
0.1 GHz to 2.4 GHz	6 dB typical
2.4 GHz to 6 GHz	7 dB typical
6 GHz to 8 GHz	8 dB typical
Phase noise	
Receiver input at ≤ 1 GHz	≤ -130 dBc/Hz at 20 kHz
	offset, typ.
Receiver input at > 8 GHz	≤ -121 dBc/Hz at 20 kHz
P. C. C.	offset, typ.
Circuit analysis	
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	280 GHz/s typical
Sweep speed at 2 MHz RBW	245 GHz/s typical
User programmable modes	Continuous, single timed,
oser programmable modes	user trigger and adaptive
Trigger-on-event modes	User defined masks.
mgger-on-event modes	actions and alarms
	actions and atains
Sampling	
Resolution	16 bits per channel (I&Q)
Rate	125 MS/s I&Q
Third order intercept points with AGC	
≤ 1 GHz	+ 20 dBm typical
> 1 GHz to ≤ 6 GHz	+ 15 dBm typical
Local accillator	
Local oscillator Re-radiation	< 00 dPm tunical
Re-Taulation	≤ -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	540 CD (4 TD)
Removable SSD	512 GB (1 TB option)
I/O Ports	
RF input (External)	3 x N-type, 9 kHz - 8 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
Native de (Esteval)	series
Network (External) Universal Serial Bus (Internal)	1 x 1 GigE 1 x USB 2.0
Data Logger	Internal control switch
Duta Logger	and status LEDs
	and states LEBS
Power	
Power Adapter 65W (External)	90-264VAC input, 24VDC
Dattam, Chauser (Enternal)	2.7 A output Universal, 100-240VAC
Battery Charger (External) Battery (Internal)	9.9 Ah Lithium-ion,
battery (internat)	rechargeable
	5 hrs. nominal operation.
Optional:	>10 hrs. operation with ext
High Capacity Battery Pack	Hot-swappable batteries
Power consumption	50 W
Nominal @ 20°C Maximum	50 W 65 W
Maximum	05 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)

