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 pre-programmed 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.



SPECIFICATIONS

Receiver	
Integrated receiver	1 x Node 100-8
Frequency	
Range	9 kHz to 8 GHz
Noise figures at maximum sensitivity	
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 offset, typ.
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 61 kHz RBW	245 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 AGC	
≤ 1 GHz	+ 20 dBm typical
> 1 GHz to ≤ 6 GHz	+ 15 dBm typical
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 - 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 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)	90-264VAC 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: ext Pack	*>10 hrs. operation with High Capacity Battery 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)

SILVUS TECHNOLOGIES
a Motorola Solutions Company

Silvus Technologies UK Ltd
Unit 1, Bourn Quarter
Wellington Way
Cambridge
CB23 7FW

Silvus Technologies and RFeye are trademarks or registered trademarks of Silvus Technologies Inc. Copyright© 2026 Silvus Technologies. All rights reserved. No part of this document may be reproduced or distributed in any manner without the prior written consent of Silvus Technologies. The information and statements provided in this document are for informational purposes only and are subject to change without notice.

bsi. ISO 9001:2015 Quality Management
UK Certificate number: FS576625