

RFEYE GUARD

IN-PLACE MONITORING SYSTEM FOR TECHNICAL SURVEILLANCE COUNTER MEASURES

Continuous real-time TSCM and in-place monitoring system for sensitive buildings and secure facilities.

RFeye Guard is CRFS's solution for continuous TSCM (Technical Surveillance Countermeasures) in secure buildings and facilities. It is deployed as a network of synchronized indoor and outdoor sensors to detect suspect signals, locate and alarm in real time. This allows our security customers to achieve the true peace of mind they require 24 hours, 365 days a year.

The system is discreet, cost effective, scalable, easy to deploy and easy to operate. Once installed, RFeye Guard autonomously monitors spectrum in real time to provide instant alert and locations to security guards on detection of suspect signals. Exceptional RF characteristics ensure even the lowest power and shortest duration signals can be detected, while indoor / outdoor signal discrimination minimizes false alarms.

There's no need to settle for partial assurance when you can achieve complete assurance with RFeye Guard. Our sensor specifications are detailed overleaf. For full details of system and software features, request a copy of our brochure.



GUARD SPECIFICATIONS



INDOOR CEILING KITS

Size, weight and power

Node unit: Dimensions (w, h, d)	560 x 94 x 458 mm (22 x 3.7 x 18 inches)
Weight	12 kg (26.5 lbs)
Power	12V DC, 70 W
Antenna plate: Dimensions (w, h, d)	590 x 100 x 590 mm (23 x 4 x 23 inches)
Weight	6 kg (13.2 lbs)
Ceiling antenna: Dimensions (∅, h)	216 x 133 mm (8.5 x 5.3 inches)
Weight	0.68 kg (1.5 lbs)

Environmental

Operating temperature	-30 – +50 °C (-22 – 122 °F)
Storage temperature	-40 – +71 °C (-40 – 160 °F)

Timing & synchronization

Master time source	GNSS or NTP server
Synchronization	Synclinc (copper or optical)

OUTDOOR NODE KITS (ODK)

Size, weight and power

ODU: Dimensions (w, h, d)	415 x 400 x 260 mm (16.3 x 15.8 x 10.3 inches)
Weight	28 kg (61.8 lbs)
Power	12V DC or POnE, 50 W

Environmental

Operating temperature	-30 – +55 °C (-22 – 131 °F)
Storage temperature	-40 – +71 °C (-40 – 160 °F)
Ingress protection	IP66

Frequency references

Selectable	Internal, GNSS or external
GPS holdover (option)	Sync Backup Module ± 1.5µs / 8hrs.

NODE OPTIONS

NODE MODEL	NODE 40-8	NODE 100-8	NODE 100-18	NODE 100-40
Node min freq	9 kHz	8 kHz	8 kHz	8 kHz
Antenna min freq	100 MHz	100 MHz	100 MHz	100 MHz
Max freq	8 GHz	8 GHz	18 GHz	40 GHz
Instantaneous BW	40 MHz	100 MHz	100 MHz	100 MHz
Tuning resolution	1 Hz	1 Hz	1 Hz	1 Hz
Sample rate	62.5 MS/s IQ	125 MS/s IQ	125 MS/s IQ	125 MS/s IQ
Sweep rate	245 GHz/s	280 GHz/s	390 GHz/s	232 GHz/s
Noise Figure	6.5 – 9 dB	8 – 10 dB	7 – 21 dB	7.5 – 18 dB



CRFS Inc
Chantilly,
VA, USA
+1 571 321 5470

CRFS Ltd
Cambridge,
United Kingdom
+44 (0) 1223 859 500

CRFS and RFeye are trademarks or registered trademarks of CRFS Limited. Copyright © 2023 CRFS Limited. All rights reserved. No part of this document may be reproduced or distributed in any manner without the prior written consent of CRFS. The information and statements provided in this document are for informational purposes only and are subject to change without notice.



UK Certificate number: FS576625