CRFS | EXTRAORDINARY RF TECHNOLOGY

VDK TELECOMMUNICATIONS

DATA SHEET

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<br>(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<br>(23 x 4 x 23 inches) |
| Weight | 6 kg (13.2 lbs) |
| Ceiling antenna: Dimensions (Ø, h) | 216 x 133 mm<br>(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<br>(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<br>± 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 |

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