Circuit Guard

All-in-one power line circuit monitoring sensor

For more information, or
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For more information, visit:
caci.com/spectrum-monitoring

CACI's Circuit Guard is a comprehensive power line antenna and radio frequency (RF) sensor solution engineered for continuous, round-the-clock power line monitoring, analysis and threat detection. The Circuit Guard functions effectively as a standalone unit or seamlessly integrates into the Spectrum Patrol In-Place Monitoring System (IPMS). When connected to a facility's power line infrastructure or specific circuit conductors, Circuit Guard performs automated scans to detect and alert users to the presence of RF and carrier current devices capable of exfiltrating sensitive, secure data. This advanced system enables users to conduct simultaneous searches across circuit conductors in the RF spectrum, ranging from 10 kHz to 1.5GHz, while concurrently monitoring line voltage and frequency on circuits up to 480VAC.

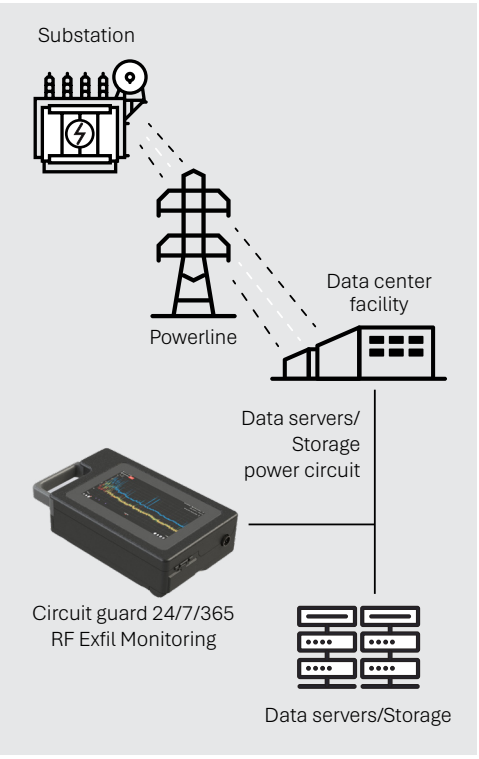
Circuit Guard missions

- Technical surveillance countermeasures (TSCM).
- Technical signals surveillance countermeasures (TSSC).
- Infrastructure protection.
- Protection of government facilities, embassies, and military bases.
- Sensitive law enforcement and field operations.
- Protection for corporate enterprises, financial institutions, and law firms.

Seamless integration

Circuit Guard can be integrated with CACI's Resource Manager and Spectrum Patrol IPMS software suites, which offer direct monitoring/analysis and tasking as a single endpoint solution or part of a larger multisensor IPMS.

CACI



How it works

Circuit Guard functions as both a handheld tool for inspecting power outlets and circuits, and as a fixed sensor within Spectrum Patrol IPMS systems for continuous monitoring. In either application, Circuit Guard conducts automated scans to detect RF/carrier current threats and power supply anomalies. Users can interact with the system through its built-in touchscreen interface or remotely via its on-board web interface, Resource Manager or SP IPMS. This flexibility allows for comprehensive control, configuration, and analysis of both real-time and historical data, enhancing overall TSCM/TSSC and 24/7/365 monitoring capabilities.

SPECIFICATIONS

Size	11.45"x 6.8” x 2.45"
Weight	6 lbs.
Power	20W
Power supply	15VDC, 100-240VAC
Operating temperature range	0° to +50° C
Storage temperature range	-20° to 85° C
RF sensor range	10 kHz to 1.5GHz
Line input	0-480vac; 50/60 HZ; three-phase (wye and delta)
Dynamic range	90dB
Gain	8dB @ 0 attenuation setting
Attenuation	0-30 dB; 1 dB steps
Auto/Manual control	3-channels; PN, PG and NG
Battery	~3.6 hrs @ 20W typical

- Power line condition monitoring circuitry (voltage and frequency).
- LCD with graphical user interface and supporting power line monitoring software.