

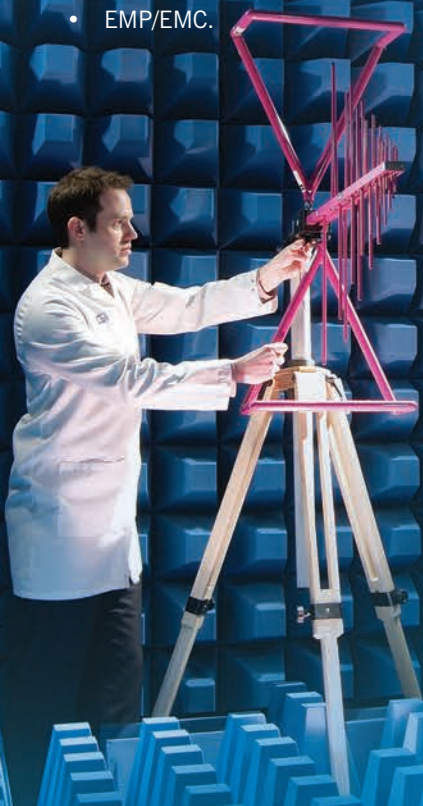
PPM Systems designs and manufactures custom RF systems. Designed to address customer-specific SIGINT requirements, we can integrate:

- Antennas
- Sensors and filters
- Optical signal transmission
- Software configurable radio receivers
- Spectrum monitoring.

Complete systems can be provided for mounted or dismantled applications in land or maritime environments.

Applications include:

- HF/VHF/UHF
- Cellular/ISM bands
- Commercial and Military Satcom
- Direction Finding
- GNSS
- EMP/EMC.



Remote antenna platform fibre optic links

Fibre optically linked remote antenna platforms, such as Rodent IV, remote several antennas (operating in different bands) over very long distances without any signal loss or degradation.

Filtering, switching and diplexing

Systems can include custom lumped element and resonant cavity RF filters, plus RF switching/diplexing.

Field deployable fibre optic links

ViaLite RF over fibre allows link distances of up to 100 km in a single hop. Rapid single fibre deployment systems and covert housings can be provided to meet the requirements of Special Forces for deploy and forget observation posts.

Multiplexing signals on a single fibre

Wave division multiplexing techniques, such as DWDM, allow up to 96 signals on a single optical fibre while maintaining signal quality and isolation.

Board level RF spectrum monitoring and processing

For board level integration of signal processing, we can provide software configurable radio receivers, down converters and DSP platforms, such as the Monitor range.

RF spectrum analysis and recording

Our receiver range provides fixed/mobile spectrum analysis and recording for COMINT and ELINT systems, wideband satellite surveillance and continuous broadband signal recording (up to 18 GHz). Portable versions of the system are available with up to 12 hours of recording capacity and GPS for location data tagging.

RF signal generation

Our signal generator platform enables the user to consolidate up to 31 RF generators into a single RF test source. Users can create versatile RF environments for rapid testing and validation of radio systems.

Channel simulators

Channel simulators combine receiver and signal source technology to create powerful radio-channel simulators, which can quickly and dynamically change parameters such as delay, fading, phase noise and filter effects.

Antennas

We provide antennas for communications, jamming, spoofing and threat-emissions applications. Antenna bandwidths range from 20 MHz to 40 GHz in static, vehicle and manpack configurations. Stacked antennas provide multiple band capability in a single antenna structure. Complex antenna solutions for radar simulation applications can provide high power RF handling with multiple bands, in extremely demanding environmental conditions.

RF Sensors

Wideband current devices and probes provide current monitoring, from 10 Hz to 80 GHz. For EMP applications we can provide electric (D-DOT) and magnetic (B-DOT) sensors in free-space and ground plane configurations.

Spectrum management Signal intelligence Counter measures



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Signal Intelligence (SigInt)

Spectrum capture, transport and replay

