

The Lockheed Martin Canada RAVEN System solution provides mod (ECM) through a wide range of jamming techniques. Deception, no polarization combine to deny the exploitation of the electromagnetic spectrum by hostile forces. RAVEN provides 360°Anti-Ship Missile Defence (ASMD) self-protection for all naval platforms and is high band antennas (6 to 18 GHz) with an option for low and/or very high band frequency coverage.

RAVEN builds upon the RAMSES (Reprogrammable Advanced Multiphode Shipboard Electronic Countermeasures System) capabilities in service today with the Royal Canadian Navy through the introduction of modern technologies providing an open architecture that enables the RAVEN design to evolve more quickly to

Unlike traditional radar jammers, RAVEN uses sophisticated RF and PRI prediction technology that is capable of producing both down-range and up-range false targets to a multitude of modern redar systems using complex PRI and RF agility patterns. RAVEN incorporates proven, leading edge, receiver technology to produce advanced deception and obscuration countermeasure. waveforms against a variety of radar systems and radar-guided missil seekers.

RAVEN implements System on Chip (SoC) technology for the application of special mode techniques, soft-kill assessment antenna stabilization and control. The SoC design is highly modular a ship stabilization interfaces.

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nd easily adaptable to various antenna assem

RAVEN is capable of performing both coherent and noncoherent radar countermeasures. The non-coherent channel is capable of AM and FM techniques with an instantaneous bandwidth of 1 GHz. The noise channel is constructed around a direct digital synthesizer for extremely fast and

Noise techniques can be set on with 1 MHz resolution and sweep bandwidths selected with 1 MHz resolution. The

RF Memory (DRFM). The DRFM is constructed around a 10; bit quantization ADC and DAC for low spurious response The DRFM memory depth is 1ms which allows use with w pulse widths (i.e. pulse compression radars). The DI has an instantaneous bandwidth of 2 GHz and the frequency can be set on with 1 MHz resolution.







POLARIZATION



