

# Shadow EW™ 120

Complete EW transceiver software-defined radio for dynamic platform needs in a small form factor

Building upon decades of industry-leading experience from across the electronic warfare (EW) spectrum, the Shadow EW family of products delivers large-platform capability in a compact footprint. The Shadow EW 120 series is a hybrid software-defined radio (SDR), optimized for radar EW operations while maintaining the flexibility to support signals intelligence (SIGINT) and communications intelligence (COMMINT) applications through its streaming in-phase and quadrature (IQ) interface.

The system integrates a radio frequency (RF) front-end with coverage up to 6 GHz and an instantaneous pulse descriptor word (PDW) processing bandwidth to match, supported by an optional Jetson Orin NX 16Gb module, TDA4 processor, and Kintex KU15P.

To facilitate integration, software and hardware interface control documents (ICDs) are available for Shadow EW SDRs. Industry-standard gigabit Ethernet interface protocols are used to enable easy integration into a wide range of system architectures.



## Features and benefits

- 5 MHz–6.0 GHz RF coverage supports broad EW, SIGINT, and COMMINT missions
- Low SWaP-C design fits small-form-factor and unmanned aerial vehicle (UAV) payload applications
- 6 GHz instantaneous bandwidth (IBW) receiver enables wide-band signal awareness
- Dual 1.5 GHz IBW transmitters allow simultaneous multi-channel operations
- External power amplifier support provides transmit configuration flexibility
- Gigabit Ethernet interface simplifies integration with standard system architectures
- Kintex KU15P and optional Jetson Orin NX deliver onboard signal-processing capability
- BIG IRON framework compatibility supports enterprise-level EW integration
- MIL-STD-810H qualification ensures reliable performance in harsh environments

# Compact. Configurable. Combat-ready. Shadow EW.

## Specifications

Model #	Shadow EW 120
Weight	< 7.0 lbs.
Dimensions	4.4" x 3.34" x 6.94"
Watts	< 150 watts max
Frequency coverage	5 MHz - 6 GHz
System receive IBW	6 GHz
System transmit IBW	3 GHz (2x 1.5 GHz)
RF inputs/outputs	2/2
Production start	2028

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