

Radar Communications

COUNTER EVERY THREAT





See the first threat

Photonis is an industry leader in providing reliable and accurate radar solutions to global militaries. Our broad range of products, combined with the innovation and versatility to engineer custom solutions, allows you to be the first to recognize any incoming threat.

Highly Sensitive Radar Solutions from Photonis

Microwave Power Modules integrate a solid-state HVPS and a Mini or Micro TWT into a compact, lightweight unit that typically generates up to 400W of wide-band microwave amplification for radar applications. Other designs can be integrated to support specific linearity or SSPA requirements.

These products support portable and mobile SWaP applications in ranges from 2-37GHz depending on the requirement.

Photonis Traveling Wave Tube (TWT) technologies offer superior radio frequency amplification across a wider range of frequencies compared to Solid State devices.

Photonis TWTs are a versatile and highly reliable solution for specific bandwidth applications and broadband multi-octave requirements. Mini and Micro TWTs are also available for applications where small size, weight and power (SWaP) is a concern.

A Traveling Wave Tube Amplifier (TWT) provides a high voltage power supply (HVPS) with a lightweight, reliable Traveling Wave Tube for a powerful plug-and-play solution with built-in-test functionality.

TWT Amplifiers have far fewer heat-related failures than their solid state counterparts. This is because TWTs do not require additional cooling and dissipation systems, resulting in a longer lifespan and lower overall weight.

Defend every asset

Photonis provides radar solutions to every branch of the US military and to NATO as well as NATO aligned allies. We offer high-efficiency and high broadband frequency systems for the most sensitive alert and protection systems in the world.

Airborne

Photonis offers a wide range of miniature traveling wave tubes (TWTs) and compact microwave power modules supporting SWaP, and integrate easily with solid state amplifiers for flight-qualified, reliable radar applications, including:

- Radar Electronic Countermeasures
- Radar Jamming Systems
- Target Acquisition
- Target Augmentation

Shipboard

Photonis power and signal amplifiers provide superior RF amplification across a wide range of frequencies, making them versatile and highly reliable solutions for both specific bandwidth applications and broadband multi-octave requirements. We also offer amplifiers in either continuous wave or pulsed modes to support a variety of applications:

- Shipboard Fire Control
- Electronic Signal Jamming
- Search Radar

Ground-Based

Whether for permanent installation, or in support of mobile ground-based missions, Photonis radar solutions provide high power with extremely low noise to provide alerts and countermeasures with superior accuracy and with minimal sparing requirements.

- Missile Guidance
- Target Acquisition
- Signal Jamming
- Ground-Based VHF Radar



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