



FUTURIS

Next-Gen Laser Spot Tracker (LST) Module

Compact. High-Precision. Mission-Ready.

Designed for missile and platform tracking applications, delivering extended acquisition ranges and robust anti-sunlight performance in dynamic operational environments.

Key Features

- **5-Channel Architecture:** Adaptive noise thresholding for maximum sensitivity across all ambient light conditions.
- **Sunlight Immunity:** Integrated anti-blinding protection and over-current circuits across all quadrants.
- **Advanced Logic:** First/last/peak pulse detection with full-duplex RS-422/RS-485 interface (Tri-Service & PIM support).
- **Flexible Gain:** Multi-stage automatic or manual configuration.

Integrated Optical Module Option

A ready-to-use optical assembly engineered for rapid platform integration:

- **Linear FOV:** 40° (High-precision boresight tracking)
- **Non-Linear FOV:** 80° (High-g target acquisition)
- **Optical Filter:** Integrated 1064 nm Bandpass (Solar background rejection)
- **Total Weight:** 435 g (PCB + Optical package)





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Parameter	Specification
Detector Size	14 mm (Custom sizes available)
Dynamic Range	> 100,000:1
Sensitivity	250 nW (typical @ 50% Pd)
Linear Operation	Up to 20 μ W/quadrant @ 1.06 μ m
Power	+6 VDC @ 150 mA / +12 VDC @ 110 mA
Operating Temp	-40°C to +85°C
Dimensions & Weight	60 × 60 × 30 mm 85 g (Board level)

