

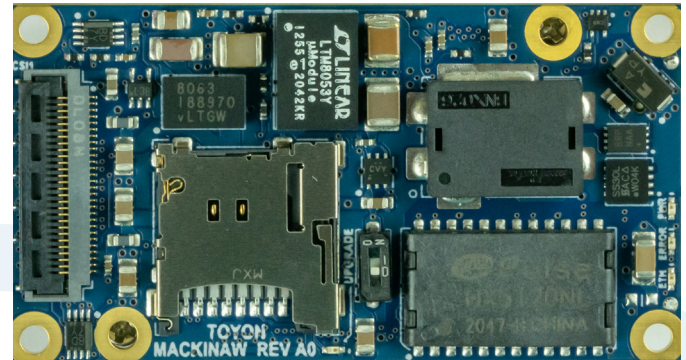
# Mackinaw

## Micro Embedded Tracking Solution

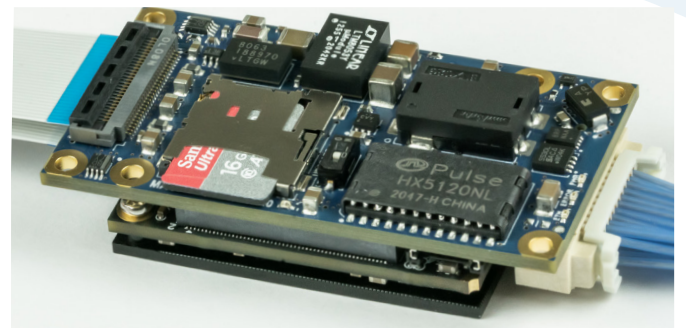
*Toyon's Mackinaw micro embedded video tracking solution provides complete, industry-leading tracking performance in a compact size*

Mackinaw is an all-in-one video tracking solution with a small size, light weight, low power, and rugged design. Mackinaw is an ideal solution for integration into networked mobile platforms of low size, weight, and power such as gimballed video systems as small as three inches. Although small, Mackinaw is mighty, offering best-in-class target tracking performance, including on unstable platforms.

- **52.5 mm x 28 mm x 12.9 mm, 23 g passively cooled hardware:**
  - -40 °C to 85 °C operating temperature
  - Planar end-launch connector IO
- **Single high-density locking Samtec connector for external interfaces:**
  - Power input: 7 VDC - 36 VDC
  - Gigabit Ethernet
  - UART, I2C, and GPIO interfaces for INS and other sensors
- **Two 4-lane MIPI CSI-2 camera interfaces via secure locking FPC connectors**
- **Micro SD and eMMC for onboard video storage**
- **Software capabilities:**
  - Click-to-track correlation tracking
  - Onboard AI models for automatic target recognition
  - H.264 video encoding
  - MISB 0601 video/metadata transport
  - MISB 0903 track data
  - WebRTC 1.0 low-latency video transport
  - HTTP web interface for configuration



*Mackinaw top view*



*Mackinaw side view*



*Industry-leading target tracking performance*

### VIDEO PROCESSING FEATURES:

- Click-to-track correlation tracking
- AI-based automatic target recognition (ATR)
- MISB-compliant metadata & track information
- H.264 video encoding and WebRTC transport

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