

Actual Size

ADEPT3000

Miniature Video Tracker

Features

- Ultra small size: 24 mm x 34 mm
- Very low power consumption: ~1.5W
- Ruggedized design
- Composite video input and output
- On-board RS232 TTL serial port
- Single target tracking
- Closed loop tracking
- Easy to set up and use

GE Intelligent Platforms ADEPT3000 is a cost-effective SWaP optimized automatic video tracking solution for platforms where size, weight and power consumption are severely constrained, such as in the cramped space of small unmanned aerial vehicles and man portable devices.

Despite its extremely small size, GE's ADEPT3000 offers high performance single target tracking with any standard definition analog video signal. Approximately the size of a microprocessor chip, the commercial off-the-shelf (COTS) ADEPT3000 operates as a stand alone unit allowing great flexibility in board location.

The ADEPT3000 incorporates on-board serial links allowing it to interface to most platforms and is designed for easy configuration and device control with intuitive menu-driven software. It is fully ruggedized to survive in the harshest commercial and military environments.

The ADEPT3000 is the first element in a line of image processing products which include electronic image stabilization, SVG graphics overlay and video compression, with multiple cards working together to provide an extremely versatile image processing subsystem with common video and communication links.



ADEPT3000 – Miniature Video Tracker

Specifications

Detection and Tracking

- Single target tracking using phase correlation
- Ability to run open loop, or to close the loop of the platform control on a tracked target

Breaklock/Coast

- Automatic track-loss detection & reacquisition

Size

- 24 mm x 34 mm

Weight

- ~ 6 grams

Power Requirements

- ~ 1.5W @ 3.6V (dependent on settings)

Connectors

- 0.1 inch pitch holes for direct wiring to customer board or SIL header pins

Video Input

- Analog Input
 - Composite video, 1.0Vp-p when terminated with a 75 ohm load
 - CCIR, PAL, RS170, or NTSC

Video Output

- Analog Output
 - Composite video, 75 ohm impedance, 1.0Vp-p when driving a 75 ohm load

Control Interfaces

- 2 off RS232, TTL, asynchronous, up to 115,200 baud providing access to configuration and status data and to a web interface (TCP-IP over serial)

Operating Temperature

- -40° C to +75° C at thermal interface

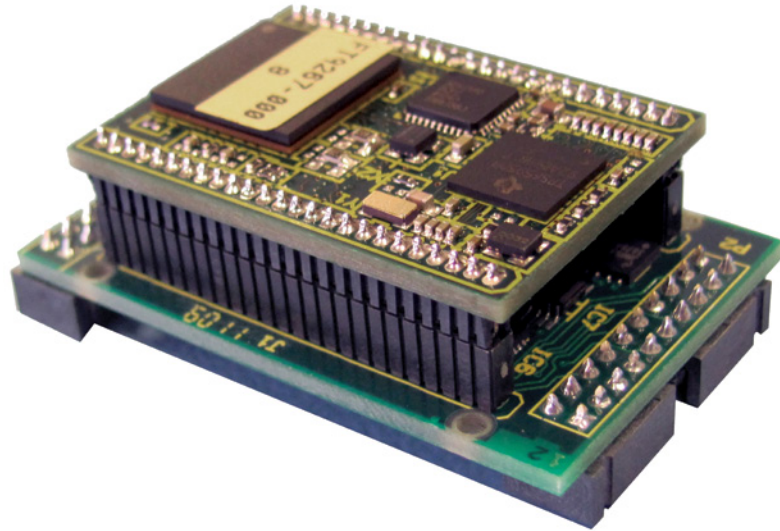
Storage Temperature

- -50° C to +100° C

Environmental

- Designed to meet rugged environments.
Environmental Specifications subject to mounting

ADEPT3000 with carrier card for illustrative purposes only



Ordering Information

ADEPT3000

Miniature video tracker

About GE Intelligent Platforms

GE Intelligent Platforms is a division of GE that offers software, control systems, services, and expertise in automation and embedded computing. We offer a unique foundation of agile and reliable technology providing customers a sustainable competitive advantage in the industries they serve, including energy, water, consumer packaged goods, oil and gas, government and defense, and telecommunications. GE Intelligent Platforms is headquartered in Charlottesville, VA. For more information, visit www.ge-ip.com.

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