

Actual Size

MIP3ES

Miniature Image Stabilizer

Features

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

GE Intelligent Platforms' MIP3ES is a cost-effective SWaP optimized automatic image stabilization solution for platforms where size, weight and power consumption are severely constrained, such as in the cramped space of small unmanned aerial vehicles, video gimbals, and man portable devices.

Despite its extremely small size, GE's ultra small image stabilizer offers high performance stabilization of real-time video images with any standard definition analog video signal. Approximately the size of a micro-processor chip, the commercial off-the-shelf (COTS) MIP3ES operates as a stand alone unit allowing great flexibility in board location.

This image stabilizer 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 MIPS3ES is another element in a line of image processing products which include automatic target tracking and SVG graphics overlay. Multiple products can work together to provide an extremely versatile image processing subsystem with common video input.



MIP3ES – Miniature Image Stabilizer

Specifications

Electronic Image Stabilization

- Image stabilization using warp-based post-processing (translation only)

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

Vibration

- Random, 0.1g²/Hz from 15 to 2000 Hz per MIL-STD-810E Fig. 514.4-8 for high performance aircraft. ~12g RMS

Shock

- 40g peak sawtooth, 11ms duration

Humidity

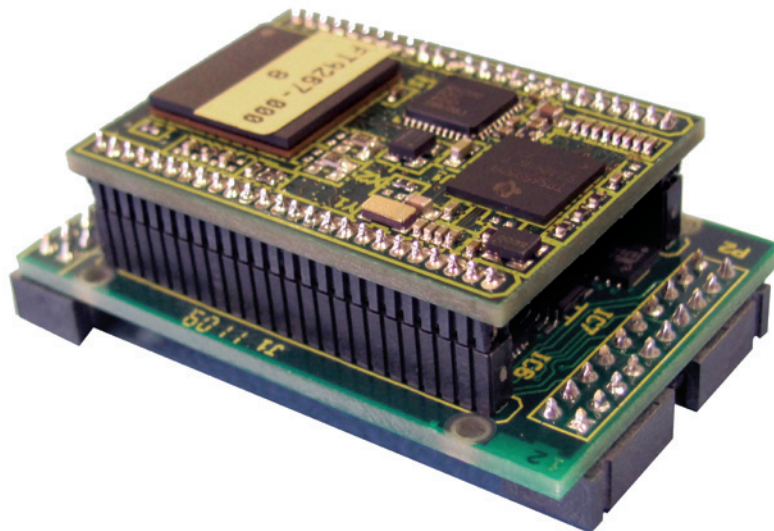
- Up to 95% RH with varying temperature, 10 cycles, 240 hours

Environmental

- Designed to meet rugged environments

Environmental Specifications subject to mounting

MIP3ES with carrier card



Ordering Information

MIP3ES

Miniature image stabilizer

About GE Intelligent Platforms

GE Intelligent Platforms, a General Electric Company (NYSE: GE), is an experienced high-performance technology company and a global provider of hardware, software, services, and expertise in automation and embedded computing. We offer a unique foundation of agile, advanced and ultra-reliable technology that provides customers a sustainable advantage in the industries they serve, including energy, water, consumer packaged goods, government and defense, and telecommunications. GE Intelligent Platforms is a worldwide company headquartered in Charlottesville, VA and is part of GE Home and Business Solutions. For more information, visit www.ge-ip.com.

GE Intelligent Platforms Contact Information

Americas: 1 800 433 2682 or 1 434 978 5100

Global regional phone numbers are listed by location on our web site at www.ge-ip.com/contact

www.ge-ip.com

