



## Land Where Other Airlines Can't With CMC's CMA-5024 GPS Landing System

FEWER DELAYS, DIVERSIONS AND CANCELLATIONS WITH SATELLITE-BASED APPROACH CAPABILITIES

- ▶ **Lower costs, extended operational capacity, reliability and flexibility**
- ▶ **Seamless operation similar to flying an ILS approach**
- ▶ **Low-risk solution designed for easy and quick retrofit**

The Localizer Performance with Vertical guidance (LPV) approach capability is a game changer in the aviation industry. It improves schedule and connection reliability while achieving significant cost savings. CMC Electronics offers a low-risk LPV solution that serves as an alternative when ILS CAT-I approaches are unavailable or inoperative.

### Key Features:

- Designed for easy bolt-on retrofit with minimum installation time
- Only standalone solution on the market for seamless operation providing ILS CAT-I look-alike functionality
- LPV approach can be tuned and controlled via legacy MCDU already installed in the aircraft
- Certified up to Design Assurance Level A and compatible with many fixed and rotary-wing platforms
- SBAS navigation data provided in a fully-integrated environment, supporting all legacy Flight Management Systems (FMS) compliant to standard ARINC 743 interface without modification
- Versatile solution with no updates required on autopilot or displays
- Certified DO-229E ready for current and future SBAS service providers

### Benefits:

- Accurate, stable instrument approach option when ILS is unavailable or not installed
- Significant reduction in operating costs due to fewer delays, diversions and cancellations
- Outstanding reliability with very high Mean Time Between Failures (MTBF) surpassing typical aircraft lifespan
- Maximized time-on-station for increased mission effectiveness rates
- Operation similar to ILS – seamless, rapid, and computer-based aircrew training

**CMC's LPV solution is currently installed and operational on platforms including:**

### Fixed-Wing

- B737 Classic, NG
- ATR 42 / ATR 72
- PC-21
- L-100
- and more

### Rotary-Wing

- H145
- H160
- H175
- H215 / H215M / H225

# CMA-5024 GPS/SBAS Landing System Sensor Unit (GLSSU)



CMC's CMA-5024 GLSSU delivers Satellite Based Augmentation System (SBAS) high-performance navigation for all RNP and ADS-B applications along with LP/LPV approach with precision guidance, also known as Satellite Landing System (SLS). SBAS LP/LPV can be installed and integrated as a self-contained stand-alone system, or in a fully-integrated environment. The LP/LPV approach can be tuned and controlled through various means, including reusing the legacy MCDU installed in the aircraft. Optional Have Quick timing interface and emulation of a Doppler Radar Velocity Sensor with precision GPS Velocity are also available.

## What is LPV

Localizer Performance with Vertical guidance (LPV) is an approach similar to an Instrument Landing System (ILS). Instead of relying on the ILS ground infrastructure and navigation aids to drive the approach, LPV relies on satellite constellations to determine precise aircraft position, lateral and vertical. Using computerized geometry, the system provides lateral and vertical guidance all the way down to ILS CAT-I equivalent minima.

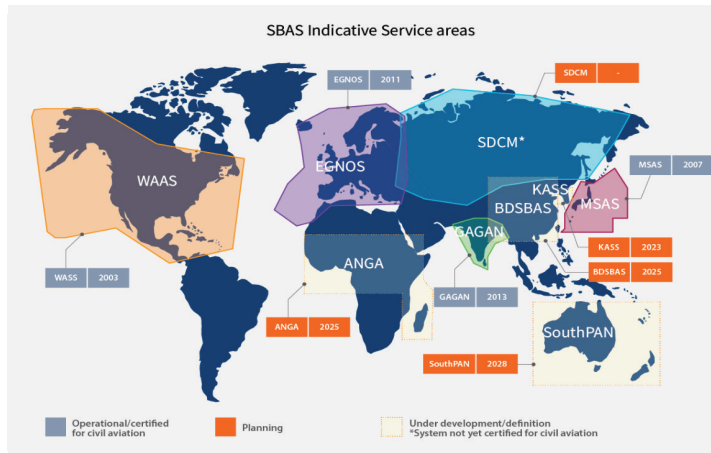
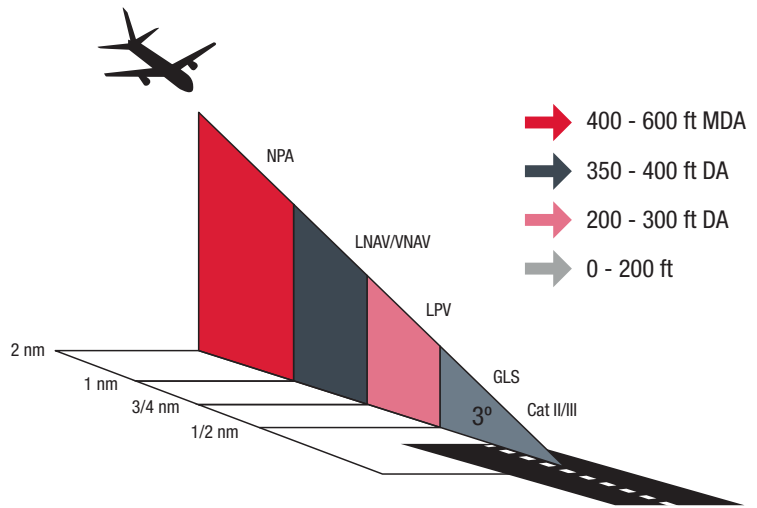


Photo: ©EUSPA

*"The addition of LPV capability to our aircraft permits us to provide significantly improved schedule reliability for our scheduled and charter clients, given the absence of traditional ground-based approach aids at many of the remote Canadian destinations we serve. From the pilot's perspective, CMC's LPV system provides a clean, straightforward interface which behaves exactly like an ILS, but with the exceptional WAAS performance and availability."*

– Chris Drossos, Director - Flight Operations, Canadian North



For more information, visit [www.cmcelectronics.ca](http://www.cmcelectronics.ca) or email us at [cmc.sales@cmcelectronics.ca](mailto:cmc.sales@cmcelectronics.ca)

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