

**Honeywell**

# **SMARTPATH® PRECISION LANDING SYSTEM**

The first and only Ground Based Augmentation System  
solution certified by the FAA



# SmartPath® The first and only GBAS solution certified by the FAA

Available today, Honeywell's SmartPath Ground Based Augmentation System (GBAS) delivers a cost-effective solution that increases airport capacity, decreases air traffic noise and reduces weather-related delays. SmartPath is the world's first and only GBAS that has been certified and implemented into ATM operations, as demonstrated in the US, Germany, Australia, Spain, and Switzerland.

## SmartPath – The next generation of precision landing guidance technology

- One SmartPath station can cover all ends of all runways. The ILS covers only one end of one runway, requiring additional installations for complete coverage
- More flexible than ILS – one GBAS can broadcast 48 unique approaches covering all runways at an airport
- Supports offset and segmented approaches, as well as displaced threshold landings
- SmartPath's precision approaches are not affected by interferences to which the legacy ILS is susceptible
- Increases airport capacity by eliminating ILS hold short-zones
- With the introduction of the Integrated Multimode Receiver (IMMR) on next generation Airbus and Boeing platforms Honeywell is the only provider able to offer a seamless airborne and ground based solution
- CAT I available today; CAT II in development
- Enhanced Accuracy over Instrument Landing Systems supports closely-spaced parallel approaches.

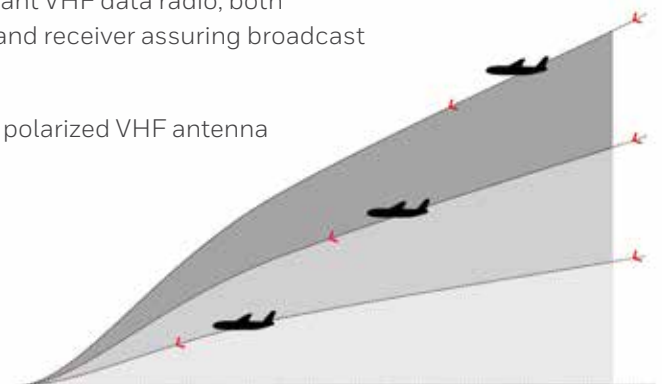
## Honeywell – A world leader in precision landing systems

- First to certify a DO-217 compliant differential GPS landing system (SCAT-1)
- Includes configurable parameters to optimize the availability based on the unique environmental characteristics of each installation
- Only FAA-approved Integrity Monitoring algorithms protecting the Signal-in-Space
- Includes Option to Integrate an SBAS receiver for enhanced performance, including support of CAT II operations with CAT I avionics
- Honeywell's fail-operational architecture, based on decades of experience designing industry leading fault-tolerant avionics, ensures maximum availability and continuity by supporting continued operations even in the presence of one or more functional failures.
- Developed to DO-278, Level B standards
- Dual redundant VHF data radio, both transmitter and receiver assuring broadcast integrity
- Horizontally polarized VHF antenna

## Honeywell SmartPath® Precision Landing System

The SmartPath Precision Landing System provides differential GPS corrections and integrity for all satellites in view and approach path information covering all runway ends

By providing extremely precise landing guidance data certified to CAT I, SmartPath enables aircraft to fly either straight in or complex approaches.



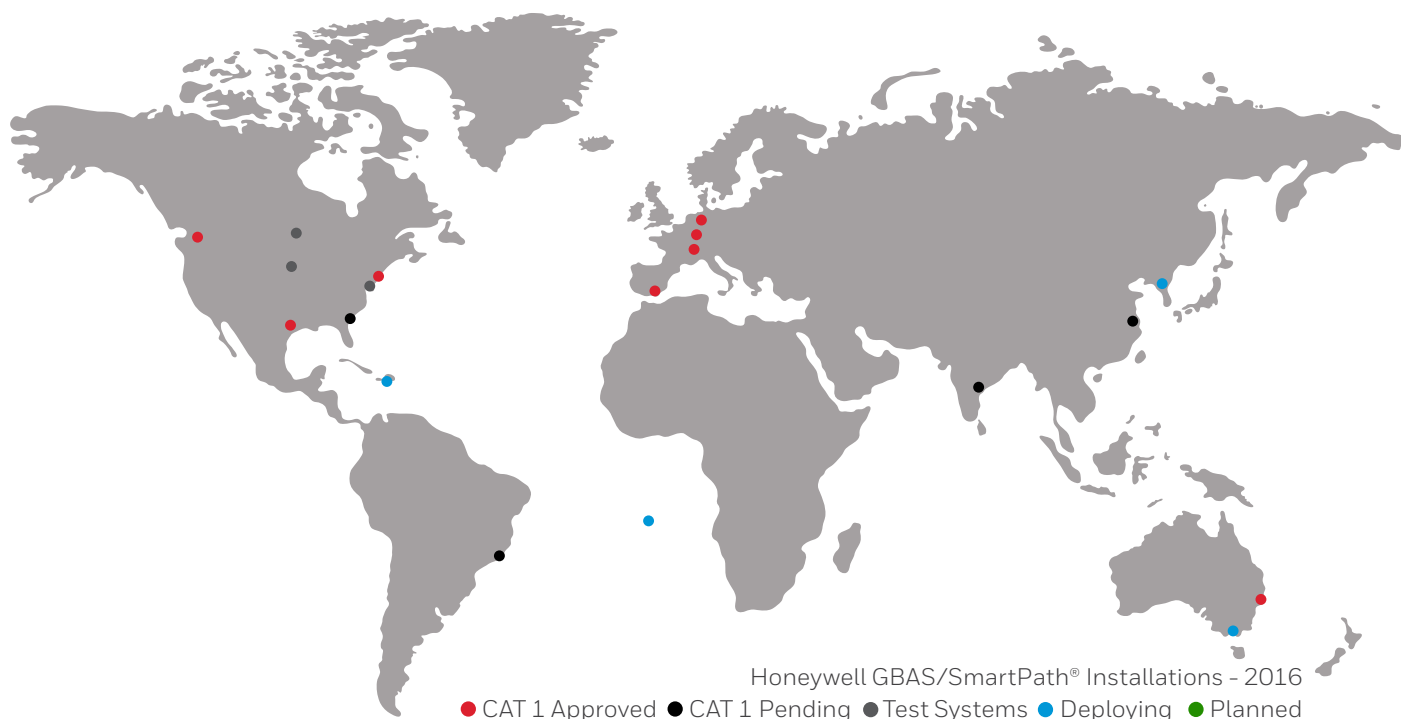


“We believe that GBAS is the air carrier precision landing system of the future and we would like to see all major airports equipped with it.”

*Ron Renk, Chief navigation pilot,  
United Airlines*

### Proven technical and logistical solutions for GBAS

- Offering turnkey products and services for precision landing implementation
  - Airport assessment; site assessment; installation; flight inspection and facility approval
  - Training (operations and maintenance)
  - Total lifecycle logistics support
- Highly-experienced in the development and installation of differential GPS landing systems
  - Honeywell has installed more than 25 systems worldwide
  - Field support (spares and logistics) through Honeywell worldwide Customer Service & Support organization



## **Honeywell Aerospace**

Honeywell is a leading global provider of integrated avionics, engines, wheels and brakes systems and service solutions for aircraft manufacturers, airlines, business and general aviation, military, space and airport operations.

For more information on Honeywell Aerospace, visit us online at [aerospace.honeywell.com](http://aerospace.honeywell.com).

## **Global Network of Support Services**

Honeywell's worldwide resources span the Americas, Europe, Middle East, Africa, Asia and the South Pacific to deliver dedicated 24/7 service support. As a world leader in aviation aftermarket services, our global repair centers, logistics network and field services engineering teams are able to quickly repair, supply, and warrant equipment whenever and wherever it is needed.

### **Find Out More**

To explore the benefits of SmartPath® visit our interactive sales tool at [aerospace1.honeywell.com/gbas/](http://aerospace1.honeywell.com/gbas/)

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