

Embraer 170/190: Honeywell innovations help maximize aircraft performance and efficiency

1 Primus Epic® Integrated Avionics System

Superior flight deck functionality and improved situational awareness for enhanced safety and reliability.

2 Cockpit Displays

Range of large format flight and multifunction displays feature state-of-the-art graphics processing with accommodations for future flight deck display functionality.

3 Automatic Flight Control Systems

Integrates flight director, autopilot, autothrottle and other flight guidance systems to provide for CAT IIIa and CAT IIIb autoland capability.

4 Enhanced Ground Proximity Warning Systems

Greatly improves flight safety by reducing the probability of CFIT – controlled flight into terrain/obstacle.

5 Aircraft Diagnostic and Maintenance System

Centralizes fault data collection from avionics and non-avionics subsystems. The central maintenance computer enables maintenance personnel to diagnose faults by correlating flight deck effects to maintenance messages, storing fault records, reporting status of subsystems, and initiating tests.

6 Communication, Navigation and Surveillance

Flight Management Systems

Expanded flight planning capabilities to select routes, altitude and timing for shorter flights and lower fuel burn.

NavCom

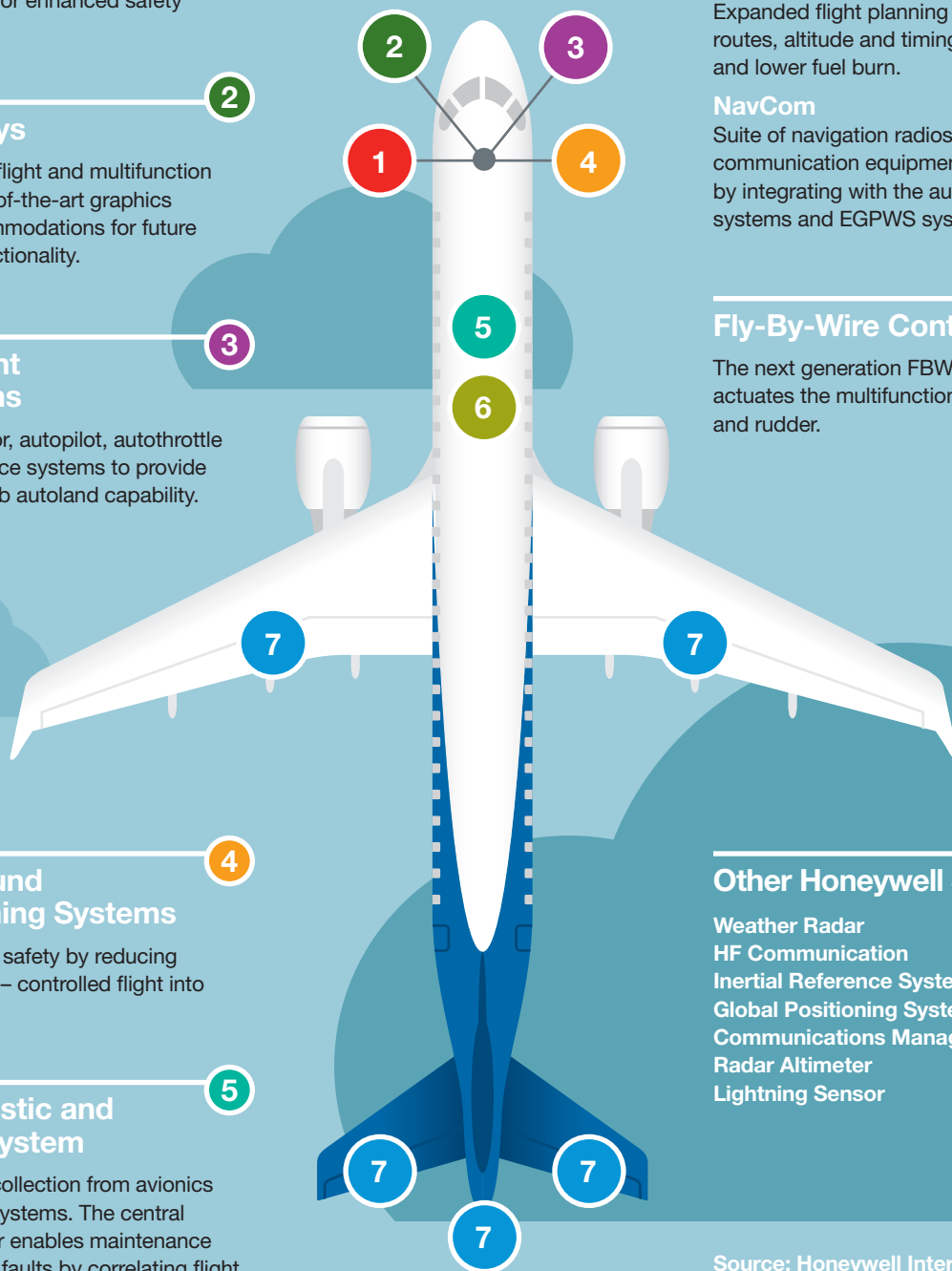
Suite of navigation radios, sensors, receivers and communication equipment improves flight safety by integrating with the automatic flight control systems and EGPWS system.

7 Fly-By-Wire Control System

The next generation FBW flight control system actuates the multifunction spoilers, elevator and rudder.

Other Honeywell Systems

- Weather Radar
- HF Communication
- Inertial Reference System
- Global Positioning System
- Communications Management Function
- Radar Altimeter
- Lightning Sensor



Source: Honeywell Internal Materials

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