



Gen VII Electronic Control Unit

Compact and Customizable Control for Your Seat Systems

High Capacity and Configurable Control

Control all of your seat systems with a single Gen VII Electronic Control Unit (ECU). Customizable and configurable, this unit offers customers the opportunity to manage multiple seat systems and reduce overall controller count to save weight, space, and cost.

The Gen VII ECU is suitable for a Bi-PAX seat configuration up through a super first class seat with multiple actuators and connected devices.

Customize the software to operate up to eight actuators plus multiple lighting sources (reading, ambient, etc.) and communication protocols with other devices. With functions like lumbar support already integrated, replace multiple in-seat controls with this single all-in-one box.

Compact and Easy Integration

Built with the latest design and technology techniques, this unique hardware unit meets all of the current requirements from Airbus and Boeing. This ECU is very compact and light weight, enabling easy integration and a simplified design of your seats. The daisy chain option complies with all power architectures for any aircraft generation. The latest power connectors (BACC65/EN4165) for the newest generation of aircraft are included.

Simpler Diagnostics and Maintenance

The Gen VII ECU captures events to record everything happening in the system, enabling you to perform predictive maintenance before seats become inoperative.

KEY BENEFITS

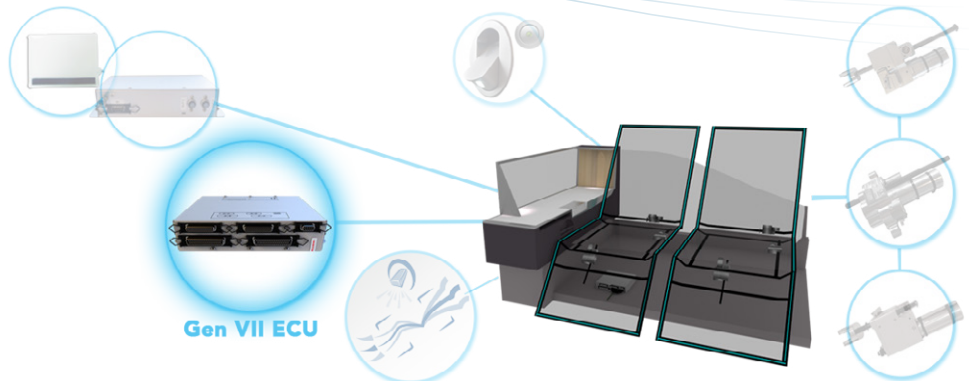
- Designed and compliant with the latest Airbus and Boeing advanced requirements
- Same hardware for all aircraft including A350 & 787/777X
- Compliant with EMI requirements (MEF) with non-shielded cables
- Integrated smart BITE
- Included health report function
- Environment and service cost friendly
- Managed by Carat® Easy Monitoring Solution

Pair this ECU with the Astronics PGA Carat® Easy Monitoring Solution to monitor your entire seat electrical system.

Earth and Budget Friendly

This ECU complies with ecology design requirements, including end of life for recycling. The new hardware architecture provides increased compacity in a very light form factor.

Improve seat design, lighten seat weight, and reduce maintenance to save your airline customers operating costs and downtime hassles with this all-in-one ECU from Astronics PGA.



Gen VII ECU

-30%
VOLUME

OPERATING
COST

KEROSENE
CO²

-30%
WEIGHT



Get Started Today

For additional details, please contact Astronics PGA.

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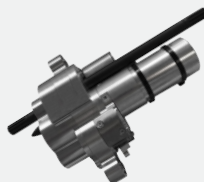
PGA Electronic is committed to quality and is EN9100 and ISO 9001 registered. Carat® is a registered trademark of PGA Electronic.



PRODUCT SPECIFICATIONS

- **Mechanical (approx)**
 - 8.2 W x 5.9 D x 1.9 H (")
 - 209 W x 150 D x 48 H (mm)
 - 2.6 lbs (1.2 kg)
- **Compliant to Airbus** 2520M1F001200 Issue 4 & **Boeing D6-36440 Rev G** compliant
- **MTBF** > 750,000 FH
- Efficient local power management system
- Advanced diagnostic and detailed failure detection
- Software modifications for full system control by customer
- Kill switch to power off just the actuators while leaving other devices, such as lighting, operational

RELATED PRODUCTS



Actuators



Easy Monitoring Solution



Reading Lights