



Steering Control

High Integrity Position Monitoring and Control

Features

- Based around Ultra's existing controllers used on the world's most modern aircraft
- Design Assurance Level A - hardware and software
- ARINC 2MCU construction
- Control Lane architecture to suit any client requirement
- Small, lightweight, and reliable

Ultra's new Steering Control Units have been developed for the world's most modern aircraft.

The Steering Control Unit controls the steering of the nose landing gear. It receives crew commands from the cockpit, both from tillers and from the rudder pedals. It monitors the position of the landing gear and signals from aircraft systems so that interlocks can be implemented if required.

The controller receives inputs from position sensors. These sensors report the position of the nose-wheel, the tiller and the servo valves. The Controller interprets these signals and determines the required outputs to the servos.

Ultra offers steering controllers with built in tiller assemblies, as well as stand-alone units.

Each Controller contains 2 Printed Circuit Board Assemblies which are mechanically separated to create independent and redundant control lanes, or separated monitor lanes depending on the customer requirement.

The Controller can be configured to perform additional functions such as backup hydraulic control and brake temperature monitoring.

Existing aircraft

Ultra's steering controllers are fitted to the following aircraft:

- Mitsubishi Regional Jet
- Embraer KC-390
- Recently selected for another modern civil aircraft application

Landing Gear Control Unit

The Controller contains fully automatic Built-In-Test capability. This function monitors the health of its own circuits and also the state of the other landing gear components it is controlling.

The Controller uses the most modern electronic components to obtain the best function, highest reliability and lowest cost.

Convection cooled – forced air cooling is not required

Full Design, Supply and Support Service

Ultra offers customers a full design, development, qualification, supply and worldwide support service. This is often in accordance with the customer's own processes and systems.

Key features

- Power supply: 28VDC
- Power consumption: 20W
- Weight less than 6 lbs
- Software: DO-178 Level A
- Hardware: DO-254 Level A

Product Category

ATA32.

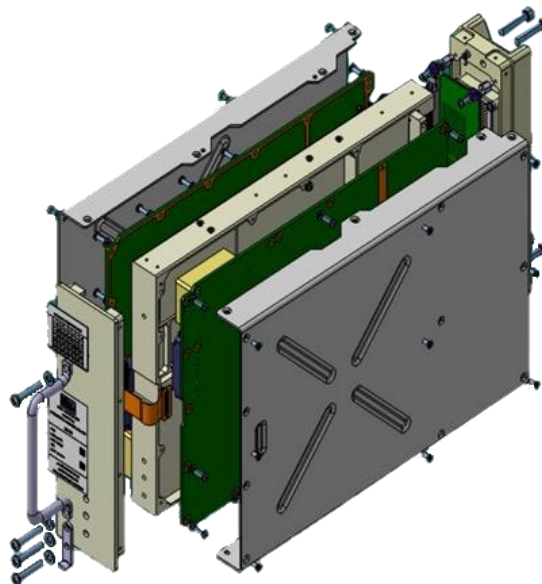


Development Lead Time

Design, development, qualification and first delivery within 18 months of contract.

Production Lead Time

Products are normally produced within 6 months from receipt of orders



Ultra Electronics
CONTROLS
417 Bridport Road
Greenford. London
UK GL51 9PG

Tel: +44 (0)20 8813 4444
Email: sales@ultra-controls.com
www.ultra-controls.com
www.ultra-electronics.com

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