LECO-0698
# Low Earth Communication Orchestrations

AVIONICS NETWORKS

LECO-0698 orchestrates communication, emphasizing efficiency and control over the process. It is a versatile platform for communication and ARINC-429 data logging designed for a wide range of aircraft, including UAVs, helicopters, general aviation, business aviation, and commercial aviation. LECO-0698 serves as a flying IoT data collector for the connected aircraft. From small unmanned aerial vehicles to large jets like the 787, LECO-0698 offers a comprehensive communication solution suitable for various aviation sectors.

Features

- 4G/LTE, Iridium 9770 satellite, WIFI and Ethernet connectivity
- Two-way communication over TCP/IP and ARINC-429 data collection for predictive analysis
- USB 2.0 for data transfers and software updates
- Up to two ARINC-429 receivers
- D38999/20FC35PN connector
- Aluminum enclosure, 5.08 x 2.70 x 1.39 in / 129.03 x 68.58 x 35.31 mm
- Power range from 12VDC to 30VDC
- 512GB to 1TB of SSD space
- One 1 Gbps Ethernet
- Weight 650g / 1.43lbs - IP60
- Operating Temp 0 ~ 55°C / Storage Temp -40 ~ 85°C
- Operating Humidity 10 ~ 95% RH
- DO-160 Class M (in progress)/ STC (in progress)
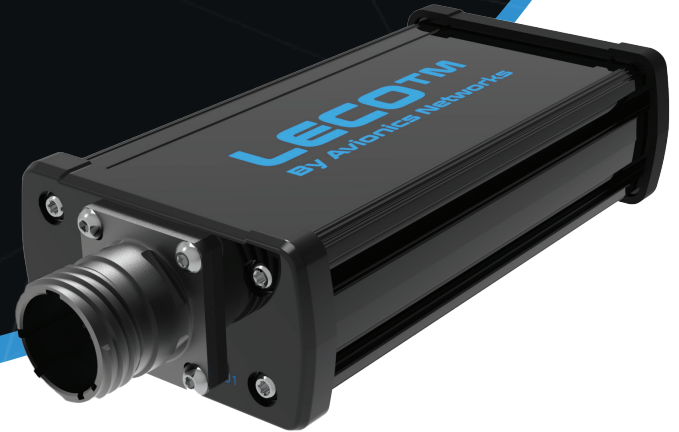
Benefits

- Global communication capability with 4G/LTE and Iridium 9770 satellite connectivity
- Enables Beyond Visual Line of Sight (BVLOS) operations
- Streamlines data collection with up to two ARINC-429 receivers
- Easy data extraction with USB 2.0 and Ethernet connectivity
- Customizable with up to 1TB of SSD space
- Lightweight and compact design for easy integration into aircraft
- Versatile as an ARINC data collector or computing platform

Front connector
- Input Power: 12VDC to 30VDC
- 1x USB 2.0 • 1x Ethernet
- Up to 2x ARINC-429

LECO-0698

RF connectors,
- 2x 4G/LTE • 4x WIFI
- 1x Iridium • 1x GPS

The LECO-0698 is a powerful and cost-effective solution for all your aviation communication needs. With its efficient design and advanced connectivity, the LECO-0698 enables seamless and reliable communication between aircraft and ground stations. Contact us today to learn more about how the LECO-0698 can benefit your operations.

Some additional advantages

• Real-time connectivity: With both 4G/LTE and Iridium satellite capabilities, the LECO-0698 offers reliable and real-time connectivity, no matter where your aircraft is flying. This means that you can stay connected to your data and devices at all times, and have access to critical information even in remote areas.

• Increased efficiency: By allowing you to download and extract ARINC-429 data from the LECO-0698's memory via Ethernet or USB, you can easily and quickly access important flight data without the need for manual data retrieval. This can save you time and resources, and help improve the overall efficiency of your operations.

• Easy integration: The LECO-0698 is designed to integrate seamlessly into your existing systems and workflows, thanks to its compact size and flexible connectivity options. This means that you can quickly and easily add this powerful device to your aircraft, and start seeing the benefits right away.

• Durable construction: The LECO-0698 is built to withstand the harsh environments of the aviation industry, with a rugged aluminum enclosure that protects it from shocks, vibrations, and other hazards. This means that you can rely on this device to keep working, no matter what challenges you may face in the air.

• High data capacity: With up to 1TB of SSD storage, the LECO-0698 can store a large amount of flight data, allowing you to keep track of your operations over longer periods of time. Depending on the size of your aircraft and the frequency of your flights, this can add up to many hours or even days of flight data.

Having Ethernet/USB/4G/Satellite connectivity on the LECO-0698 allows for easy extraction and downloading of the ARINC-429 data that is stored in its memory. This data can be used for predictive maintenance and analysis, providing valuable insights into the health of the aircraft's systems.

For example, with the 512GB to 1TB of SSD space available, it is possible to accumulate a large amount of ARINC-429 data for a one-hour flight. The exact amount of space needed depends on the specific data being collected, but as a general estimate, one hour of flight time could generate around 10-20 GB of data. This means that the LECO-0698 can store several days worth of flight data before needing to be downloaded or cleared out.

The Ethernet and USB 2.0 ports make it easy to transfer this data to a ground station for further analysis, while the 4G/LTE and Iridium Satellite connectivity provide a reliable way to do so even when the aircraft is in flight and out of range of terrestrial networks. This combination of features allows for efficient and effective management of the aircraft's systems, improving safety and reducing maintenance costs over time.

CONTACT AVIONICS NETWORKS TODAY!

to learn more or
to place an order.

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