

GroundLink® Comm+ System

The Keystone of all your connectivity needs



The Power of wireless connectivity

- Enables data transfer in all flight phases using cellular networks while on the ground and Broadband* while in flight
- New version upgraded for LTE
- Automatic selection of available LTE networks with automatic fall-back to 3G when LTE not available
- Configurable network selection to control data roaming costs
- Simultaneous use of up to 2 or 4 cellular radios (2400 Mbit/s)
- Secure data transfers using encryption technology
- Resumable file transfer function for large files
- Data compression to minimize transmission times and costs

* when used with GroundLink® Broadband

The Best Way to Distribute Data on the Ground and in the Air

Teledyne's new GroundLink® Comm+ LTE system offers unparalleled capability in automatic data exchange, leveraging 3G/4G/LTE cellular technology and IP Broadband connectivity to facilitate and accelerate data transfers between airborne systems and ground-based equipment, and to transfer critical data while in-flight.

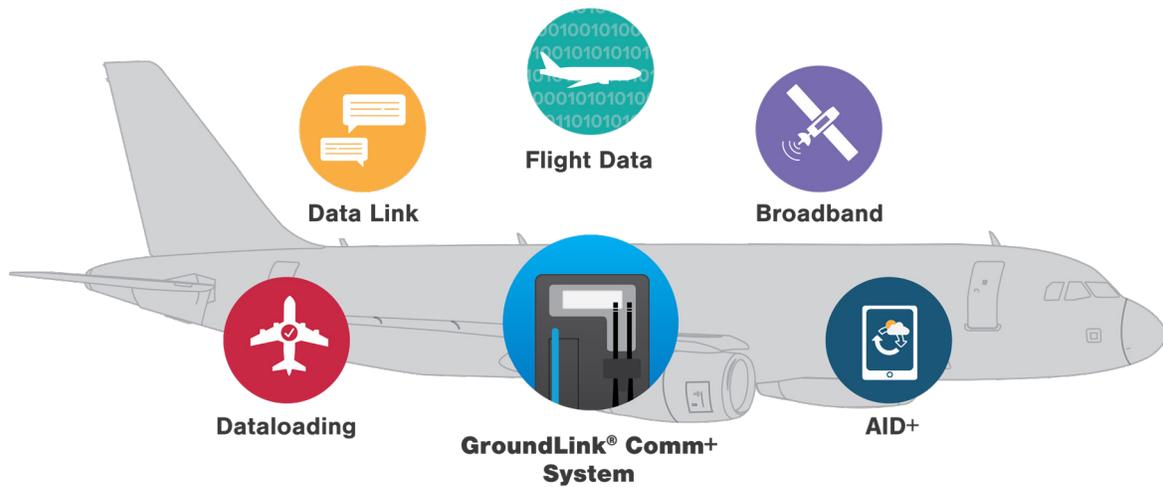
The GroundLink® Comm+ system supports multiple applications across an airline's operations, providing real-time data streaming, cabin/crew in-flight connectivity, wireless distribution of field-loadable software parts across the fleet, automated FOQA download and more. All this through one single unit.

The GroundLink® Comm+ system is also fully ATA Spec 42 compliant and ensures the safety and integrity of all data transfers, employing digital certificates based on Public Key Infrastructure (PKI) technology.

Your Crew, Operations, Maintenance and Flight Safety teams will all benefit from the bi-directional wireless connectivity provided by the GroundLink® Comm+ system to access, manage and utilize valuable data more rapidly and efficiently. By putting key information into the hands of those who need it quickly, the GroundLink® Comm+ system provides new ways to increase productivity, enhance safety, improve compliance and lower



A Full Suite of GroundLink® Connectivity Solutions Available Today



GroundLink® AID+

Wireless Aircraft Interface Device and Internet Connectivity for Tablet/Wired EFBs



GroundLink® Data Link

ACARS messaging over IP on the ground and in the air



GroundLink® Flight Data

Automated Aircraft Data Recording, Wireless Distribution and Analysis



GroundLink® Dataloading

Automated Delivery of Navigation Databases and Software Parts across the Fleet



GroundLink® Broadband

IP Connectivity via SatCom to transfer critical data while in-flight

| Enabling the Connected Aircraft

For over 20 years, Teledyne Controls has been leading the way in enabling the Connected Aircraft. A pioneer in wireless air-ground communications, Teledyne first introduced cellular technology in 1999 as a viable means to transfer large volumes of data between the aircraft and the airline's ground network. Since then, the company has been designing innovative wireless data transfer solutions that leverage cellular, WiFi and broadband communication technologies, to provide secure and reliable links to move data on and off the aircraft, both in flight and on the ground.

With a proven track record and thousands of units in the field, Teledyne's GroundLink solutions continue to evolve, providing full connectivity within an airline's operations and streamlining data distribution across its key stakeholders.

| Examples of use cases and benefits driven by Teledyne's GroundLink Solutions

- Actively manage flight cost and performance through continuous reception of critical in-flight information such as weather and turbulence data
- Increase safety during airport operation through Airport Moving Map capability
- Significantly reduce ACARS cost with GroundLink ACARS over IP function
- Benefit from seamless integration with leading eTechLog solutions
- Reduce cabin sales fraud through in-flight credit card validation
- Send and receive ACARS messages directly to/from EFB applications
- Receive real-time aircraft/flight data updates to electronic flight folder and performance application
- Eliminate floppy disks with automated wireless distribution of navigation data-base across the fleet
- Improve flight tracking with real-time streaming of selected aircraft/flight data to the ground station while in flight
- Fully control distribution and sharing of data with internal stake holders and 3rd party vendors