

SkyLink® 7100

**PROVIDES CONTINUOUS CONNECTIVITY FOR
ENHANCED UNCREWED AIRCRAFT SYSTEM
(UAS) OPERATIONS**

Comprehensive UAS Solution

SkyLink 7100 by NAL Technologies delivers uninterrupted connectivity, enabling autonomous communications from beyond visual line of sight (BVLOS). This lightweight, low-SWaP solution is powered by local high-speed cellular networks and next-generation Iridium Certus® satellite service to enhance uncrewed operations.

Easy to install and operate, SkyLink 7100 is purpose-built to support advanced capabilities such as streaming low-latency data from onboard sensors, transferring photos, and utilizing real-time command and control (C2). With SkyLink 7100, achieve total visibility and connectivity for all uncrewed assets, in any location across the globe.

APPLICATIONS

- Emergency services
- Environmental monitoring
- Government & defense
- Infrastructure monitoring
- Payload delivery
- Public safety
- Scientific exploration
- UAM

CAPABILITIES

- BVLOS communications
- Command & control (C2)
- Communications backhaul
- GNSS positioning
- LIDAR compatibility
- Remote ID
- Remote monitoring
- Surveillance capability
- Telematics



SkyLink 7100 Data Gateway

Specifications

ANTENNAS*



TSO'd Option



Non-TSO'd Option

*SkyLink 7100 Data Gateway can integrate with COTS LTE or MIMO antennas

PHYSICAL (DATA GATEWAY)*

- Size: 8 x 5 x 1.5 in (12.7 x 20.3 x 3.2 cm)
- Weight: 1.6 lb. (0.7 kg)
- Operational temperature: -40°C to +70°C
- Input voltage: 10 – 34VDC
- Power consumption: 10W peak power, 5W nominal
- DO-160G
- IP65 compliant
- Frequency: 1616 MHz – 1626.5 MHz

PHYSICAL (ANTENNAS)

- Single-channel antenna: 3.5 x 1.2 in. / 0.5 lb. (8.9 x 3.0 cm / 0.2 kg)
- Helical antenna: 1 x 2.25 in. / 0.1 lb. (2.3 x 5.7 cm / 0.04 kg)

*Physical specifications subject to change

CONNECTIVITY

- Iridium Certus® 100 services: 88 Kbps DL / 22 Kbps UL
- Cellular LTE-A CAT 12 600 Mbps DL / 150 Mbps UL
- Least-cost routing
- Ethernet, USB, RS232
- GNSS positioning / tracking
- Application hosting
- Remote device management
- Diagnostics & health monitoring
- Integration with SkyRouter™ fleet management

About NAL Technologies

NAL Technologies (Naltec) is an industry-leading provider of advanced connectivity and emerging critical assurance technology. Our powerful military-grade devices, intelligent software, and flexible cloud-based applications enable customers to ensure continuous connectivity and resilient positioning, navigation, and timing (PNT) awareness from any location in the world.

NAL TECHNOLOGY IS A PREFERRED IRIDIUM CERTUS® SERVICE PROVIDER AND VALUE-ADDED MANUFACTURING PARTNER.