The C100 is a panel-mounted control unit capable of directly interfacing with SkyLink™ Antenna products, as well as, microwave radios or other related mission equipment.

The C100’s user interface is a touchscreen based LCD display with a rotary encoder knob and shortcut keys.

The C100 can remotely control the following ancillary equipment:

- Microwave Radios
- Audio/Video Routers
- Digital Encoders/Decoders
- EO/IR Sensors
- ARINC 429 Bus
- Various Avionics
- Power System Control (+12 and +24 VDC)

With the C100, all system functions can be controlled and displayed together on the same screen. More than one C100 can be installed if control of the system is required from multiple locations in the aircraft.

The C100 can control all of the functions on microwave radios supplied by various vendors. Using the C100, the radios may be installed remotely and all radio functions can be controlled directly from the C100 controller. The C100 provides presets which allow the system to automatically select a desired mode of operation with a single button.

The C100 features an integrated moving map enabling the operator to visualize the aircraft’s position relative to the receive sites, major landmarks and the RF transmission beam.
SkyLink™ C100
Map-Based Airborne Microwave Controller

PHYSICAL CHARACTERISTICS
Size: 5” x 5” Aircraft Panel Mount (DZUS), 3.5” deep
Weight: 4 pounds
Input Voltage: 18-32 VDC
Input Current: 1 A nominal, 24 A max with external loads
Output Voltages: 4 X 28 VDC (up to 7 A each or 20 A total), 3 X 12 VDC (9 total)
Video Display: Backlit TFT LCD, 320 x 240 pixels with 64,000 colors
Operating System: Windows CE
Program Storage: Type 1 Compact Flash
Data Ports: 6 Serial Ports (RS-232/RS-422); 1 Ethernet 10/100; 2 USB

FEATURES
Moving Map: Local region moving map showing receive site locations, major landmarks, terrain and obstruction information and microwave radiation patterns.
Input Controls: System controlled via touchscreen, rotary knob and shortcut keys. USB keyboard can be used for data entry.
BIT (Built In Test): Comprehensive internal testing including monitoring input/output voltages and currents, internal temperature and serial port status, settings and error rates.

OPTIONS
GPS: Built-in 16-Channel GPS. Drivers available for some external GPS (Consult factory).
Compass System: Analog ARINC-407 compass input available.
Tracking Data: Internal tracking data encoder RS-232 or audio output available. Supports NavTrack, LogicTrack I and II. (Other protocols, consult factory).
Video Input: Supports two SDI inputs (live video) displayed either in a window or as an overlay. Video is full-motion with frame capture capability.
Video Output: Output available to support a single LCD monitor (1280 X 1024). Display will be unique with live video, overlay and mapping capabilities.
NVG Compatibility: Night vision compatible screen

Specifications subject to change without notice.

SKYLINK SYSTEM MAP INTERFACE

The C100’s moving map is a great spatial awareness tool, indicating the position of the aircraft relative to landmarks and terrain while simultaneously displaying the location of the remote receive sites and the RF transmission beam.