

Specifications

Functional

Compliant with ARINC standards
618, 619, 620, 622, 623, 724B and 758.

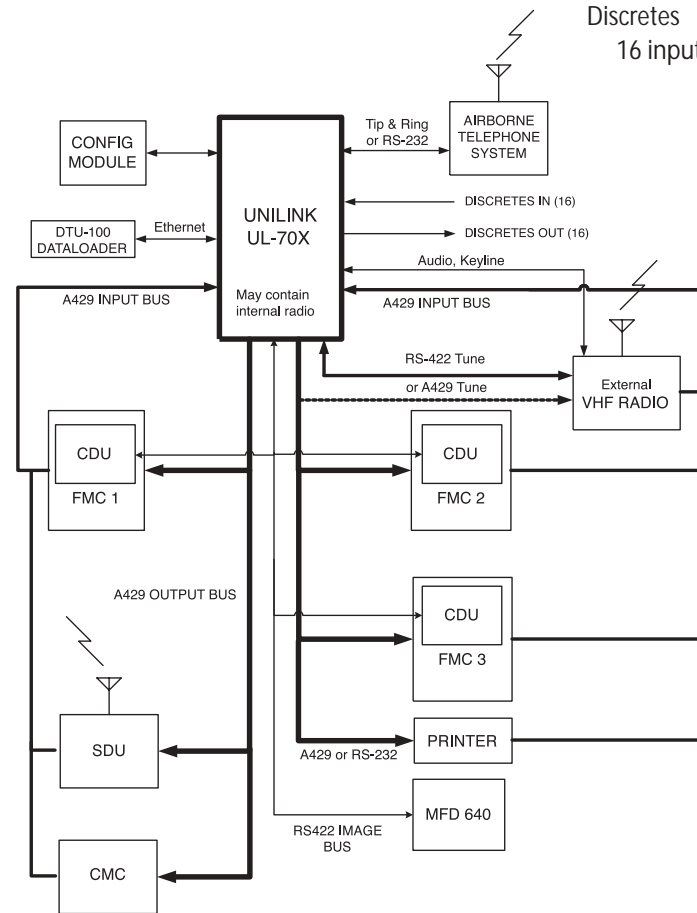
External Interfaces

Collins VHF22/422 Radio
ARINC 716/750 VHF Radio
ARINC 741 Satcom
Aero-I Satcom Telephony
Aero-M Satcom Telephony
Magnastar Telephony
ARINC 604 Central Maintenance Computer
ARINC 740 / 744 Printer
Serial Printer
UASC Ethernet dataloader

Hardware

MPC860T communications controller
12 Megabytes Flash memory
16 Megabytes SDRAM
VHF radio (UL-701 only)
20 watt
118-137 MHz, 25 kHz spacing
Airphone Modem (telephony)
1 input / 1 output
ARINC 429
14 input / 4 output
RS 422/232
8 input / 8 output
RS 232 diagnostics port
1 input / 1 output
Ethernet
1 10 / 100 Base-T
Discrettes
16 input / 16 output

Configuration Module
1 input / 2 output
Built-in Test Equipment (BITE)
Meets DO-160D Envir. Categories
Size
Height: 7.64 in (19.4 cm)
Width: 0.99 in (2.51 cm)
Depth: 15.23 in (38.68 cm)
Weight
UL-700: 3.37 lbs (1.53 Kg)
UL-701: 4.38 lbs (1.99 Kg)
Power
28 VDC nominal
UL-700: 9 watts typical
UL-701: 15 watts typical
Antenna
50 ohm passive VHF, 118-137 MHz



Corporate Offices Marketing/Support

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Specification and graphic displays contained herein are subject to change without notice. Features and capabilities may be limited due to installation or interfacing equipment. Initial installation requires FMS software which is UniLink compatible. Weather graphics are the property of Universal Weather and Aviation, Inc., Houston, TX. UniLink is a registered trademark of Universal Avionics Systems Corporation.



UniLink70X-2/03

UniLink

Communication Management Unit UL-700/701



UNILINK



UniLink is available with (UL-701) or without (UL-700) internal VHF radio.

Our UniLink Management Units (CMU) provide you with optimum operation and control of air-to-ground, two-way datalink communications with your selected ground-based service provider. Developed in full compliance with DO-178B Level C guidelines, these CMUs will accommodate the expansion of datalink applications into more critical areas of airline and air traffic operations such as CPDLC and ADS.



Weather graphics can be viewed on our graphics-capable UNS FMS Control Display Unit with 5-inch diagonal screen, on our MFD-640 Multi-Function Display Unit, or other compatible displays.



Interfaces The UniLink CMU is designed for interface with our UNS-1 color flat panel Flight Management Systems (FMS) and will support an ARINC 739 interface with other capable display units. UniLink's independent menu-format software integrates seamlessly with the FMS and provides easy access for sending and receiving data. A single UniLink CMU can support single, dual or triple FMS installations. Provisions are included as well to interface with the standard Multi-Purpose Control and Display Unit (MCDU).

Routing Communications may be routed through the aircraft's VHF, satcom or airborne telephone systems. Provisions are also included for ACARS messaging over VDL Mode 2 along with growth capability to support the Aeronautical Telecommunications Network (ATN). For increased flexibility, you can select the model UL-701 which includes an internal VHF radio. UniLink brings you the benefits of datalink communications with maximum capabilities and versatility, all at a fraction of the size, weight and cost of traditional systems.

Text and graphics The UniLink CMU affords datalink opportunities for messaging, flight plan up-loading, pre-departure and other clearances, automatic position reporting, ETA updates, digital ATIS and text weather information such as TAF, METAR, SIGMETs, winds aloft and TWIP. Weather graphics can also be uploaded to either a graphics-capable FMS Control Display Unit or our MFD-640 Multi-Function Display. These graphics can include displays of composite radar, tops and movements, IR satellite images, significant weather, winds aloft and IFR/MVFR depictions as well as icing and turbulence potentials.

Airline Operations UniLink supports all ACARS message types including triggered events such as OOOI times (Out, Off, On, In). The UL-700 and UL701 CMUs can also downlink aircraft-acquired data for maintenance and operational analysis including engine data from a Central Maintenance Computer. Meteorological data collection and reporting is supported, as well. The UniLink database-driven user interface and message set is easily customized to match airline operational requirements and is uploaded into the CMU without affecting product software or certification status.

Compact/Lightweight The UL-700 and UL-701 UniLink CMUs are each compactly housed in 1-MCU sized line replaceable units weighing just over three and four pounds respectively. For ease of retrofit, the CMUs are pin-for-pin backward compatible with the UL-60X product line.

FMS/Datalink is your future. As we move toward reducing voice communications and closer to a "free flight" airspace environment, the combined UNS-1 FMS and UniLink suite will allow you to take advantage of evolving routing and communication benefits envisioned within the Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) system of tomorrow.



Flight Information Services



Text Messaging



Out/Off/On/In Times



Multiple Routing Interfaces



UNS Flight Management Systems can provide control and display for UniLink features and capabilities.

- Multiple Media Routing
- Full ACARS/CMU Functionality
- Auto Position Reporting
- Weather Graphics
- Loadable Customer Database
- DO-178B Level C Compliant
- CNS/ATM Provisioned



Text Weather



Weather Graphics



Access Uplinked Weather Graphics



Access Message Log



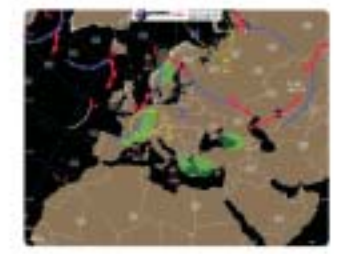
Composite Radar



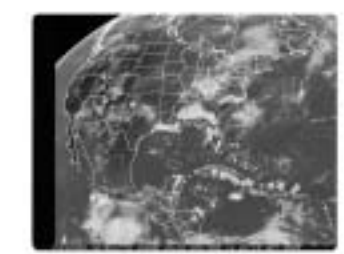
IFR/MVFR



Tops and Movements



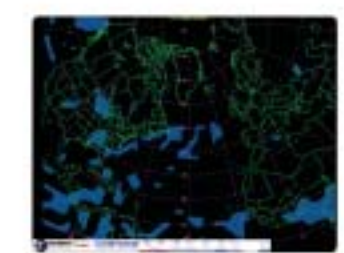
Significant Weather



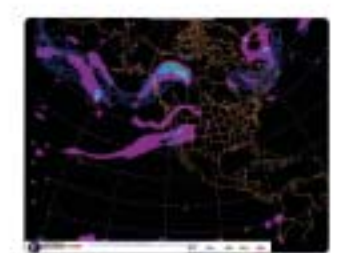
IR Satellite



Winds Aloft



Icing



Turbulence