

MCDU DIALING

DEDICATED SBD MODEM

FANS AND CPDLC MESSAGING

AUTOMATIC GAIN CONTROL (AGC)

INTERFACE WITH COCKPIT AUDIO SYSTEM



ICG NXTLINK 220A

IRIDIUM TRANSCEIVER

The ICG NextLink 220A Iridium Communications System is a three transceiver device which combines dual channels of global voice and 2400 BPS data service with a third "Short Burst Data" (SBD) channel in a single 2MCU LRU. The NextLink 220A device is a comprehensive communications system that provides the Flight Crew with a dedicated Datalink channel to support; ACARS, FANS messaging, CPDLC and an exclusive global voice channel. An additional voice/data transceiver is available for the cabin staff providing communications in case of medial emergencies.

The NextLink 220A permits connections of conventional telephony devices through either standard 2-Wire "Tip and Ring" circuits or 4-Wire audio connections. Telecom features include intercom calling, call transfer, conferencing and follow-on dialing. The device connects to standard aircraft systems via 4-Wire audio for flight deck voice and ARINC 429 circuits for MCDU dialing or Datalink messaging exchanges. The device has a connection for an optional external SIM card readers making them a true LRU. This LRU can be used with various types of handsets from cordless to retractor reel that can be for cabin use.



ICG NXTLINK 220A SPECIFICATIONS

VOICE AND DATA CIRCUITS

- (2 Ea.) Iridium LBTs
- (1 Ea.) Short Burst Data (SBD) Modem
- (4 Ea.) 2-Wire "Tip and Ring" Telephony Ports
- (6 Ea.) ARINC 429 Receive Circuits (Low or High Speed Configurable)
- (3 Ea.) ARINC 429 Transmit Circuits
- (8 Ea.) Discrete Input Circuits (Software Configurable)
- (8 Ea.) Relay Driven Output Circuits (Configurable)
- (2 Ea.) 4-Wire Audio Circuits with Hook and Ring Signals
- (1 Ea.) RS-232 Serial Data Port
- (1 Ea.) Serial Port for connection to External Configuration Storage (CIS) device
- 2 DPL Circuits for Connection to External SIM Reader (ICG CIM)
- (1 Ea.) RJ-11 Test Jack
- (1 Ea.) USB Maintenance Jack

TELEPHONY / AUDIO SERVICES

- Three-party Conferencing
- Intercom Calling
- Automatic Gain Control (AGC)
- Digital Echo Suppression for 2-Wire telephone circuits.
- Follow On Dialing (not included in MCDU dialed calls)

TELEPHONE SPECIFICATIONS

PN # 710617-1
Chassis: (L x W x H)
Standard 2MCU rack
15.68 in x 2.25 in x 7.6 in
(39.83 cm x 5.72 cm x 19.3 cm)
Weight: (2MCU Rack) 8.55 pounds (3.89 Kg)
Weight: (2MCU Tray) 2.00 pounds (.909 Kg)
Prime Power: 28VDC
LRU Connector: ARINC 600 Size 1
Temperature: -55°C to +70°C storage,
-40°C to +55°C operating
Altitude: 55,000 ft.
Vibration: S2
Additional Circuits: External SIM Reader

COMPLIANCE STANDARDS

- ARINC 741/761 Datalink over SatCom Standard
- ARINC 739a MCDU Interoperation Standard
- ARINC 618 ACARS Messaging Standard
- ARINC 429 HS or LS Data-Bus Standard
- DO-160E Environmental, Compliant to D1
- ARINC AQP Testing Compliant

INNOVATIVE COMMUNICATIONS. SUPERIOR TECHNOLOGY.

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