

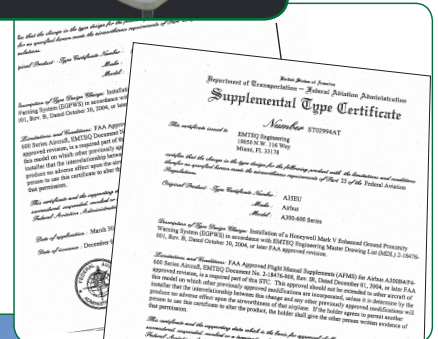
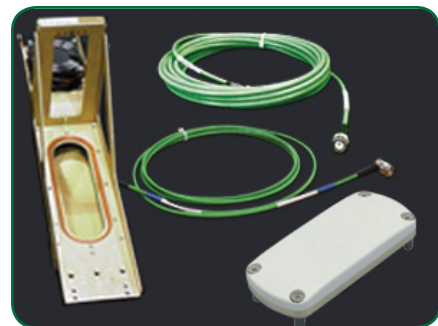


INTERNATIONAL COMMUNICATIONS GROUP COCKPIT AND CABIN SOLUTIONS

COMPETITIVE AND RELIABLE SOLUTIONS FOR YOUR VOICE AND DATALINK/ACARS GLOBAL COVERAGE REQUIREMENTS

EMTEQ and International Communications Group (ICG) have extensive system engineering and in-house certification expertise, when combined offer ideal solutions for your voice and DATALINK satellite communication operational requirements. ICG is a recognized leader in developing communications integration, automation and management systems.

EMTEQ provides turnkey solutions including line replacement units (LRU), FAA STCs and other local authority approval coordination, installation kits and on-site support.



FLIGHT DECK AND CABIN SOLUTIONS

FLIGHT DECK SOLUTIONS: ACARS (DATALINK, FANS-1/A, CPDLC)

- Iridium is now approved by ICAO for Aeronautical Mobile Satellite (Route) Services (AMS(R)S) and ACARS/FANS over Iridium (FOI) safety messaging for commercial aircraft on transoceanic flights.
- ICG's Flight Deck communication systems are compliant with ARINC 741/761 and ARINC 739A specifications for ACARS via SATCOM. ICG products also follow the same ARINC 618 message sets and protocols as HF, VHF and Inmarsat.
- ICG's Iridium products are a less expensive alternative when compared to Inmarsat or HF radio for voice and ACARS services. Another benefit of Iridium is that it also provides true global coverage over water and polar routes.



**EMTEQ provides certification expertise
with complete installation kits**

CABIN SOLUTIONS: DATA, VOICE, VOIP

- First-to-market with extended services over Iridium: multi-channel voice and data, secure voice, credit card calling, fax/data, Magnastar System Interface, VoIP

ICG AVIONICS SUPPORT PACKAGE KITS

ICG NxtLink Series 120A/120B/120BF & 220A/220B/220BF/220AF Standard Cable Set

Part Number	Description
CKIT-NXLXXX-XXX*	Up to 50ft cable assembly of TFLX/PFLXXXX-XXX coax cable which includes: <ul style="list-style-type: none"> • 1 - TNC Male right angle connector (TMRXXX-X) • 1 - TNC Male straight connector (TMSXXX-X) One 3ft cable assembly of PFLXXXX-XXX coax cable which includes: <ul style="list-style-type: none"> • 1 - TNC Female bulkhead connector (TFSXXX-X) • 1 - ARINC 600 size 5 contact (A65XXX-X)

ICG NxtLink Series 120A/120B/120BF & 220A/220B/220BF/220AF Hardware Kit

Part Number	Description
ASP-NXLXXX-900**	2 MCU short/short tray with metering plate & seal, special connector plate cut-out, self-locking style holddowns and ARINC rack connectors
MT6-2315-101	2 MCU short/short tray with metering plate & seal and special connector plate cut-out and self-locking style holddowns

ICG AEROCOM 3000

Part Number	Description
ASP-AEROCOM3-XX	6 MCU tray and ARINC rack connector (XXX: several configuration options)
MT6-63XX-XXX	6 MCU tray (XXX: several configuration options)

ICG AEROCOM 1100

Part Number	Description
ASP-AEROCOM1-XX	2 MCU tray and ARINC rack connector (XXX: several configuration options)
MT6-23XX-XXX	2 MCU tray (XXX: several configuration options)

EMTEQ can provide custom prefabricated cable assemblies specific to customer cable requirements

* XXX: 120A, 120B, 120 BF, 220A, 220AF, 220B, 220BF, **XX: various configurations available

50 OHM Polytetrafluoroethylene Coaxial Cable (FEP)

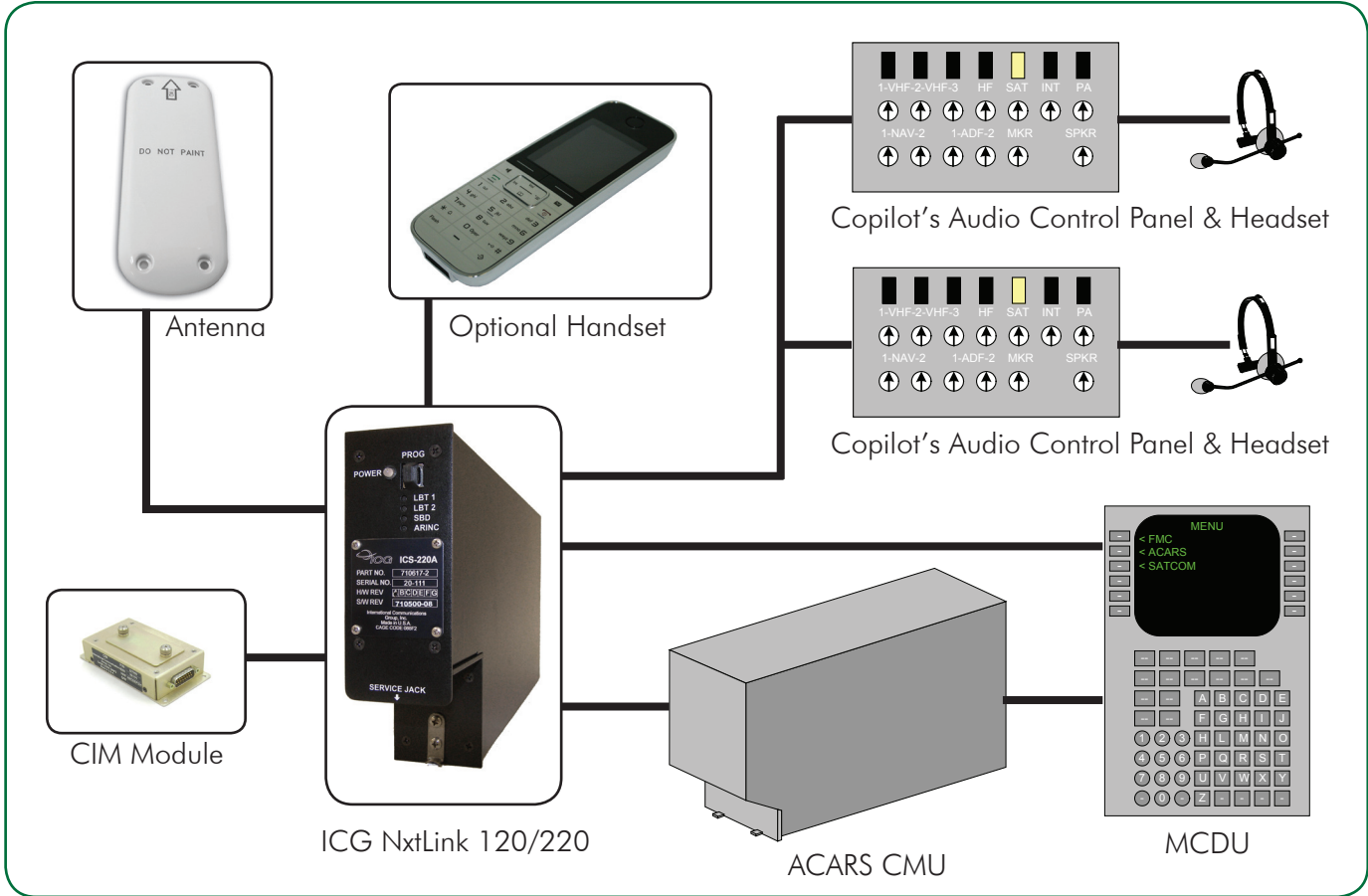
FEP P/N	Diameter (inches/mm)	Attenuation (dB/100ft) @1600MHz	Time Delay (nS/ft)	Min. Bend Radius (inches/mm)	Weight (lbs/100ft)
TFLX130-100	.130/3.3	21.6	1.26	.65/16.5	1.4
TFLX165-100	.165/4.2	17.0	1.37	.85/21.6	2.2
TFLX205-100	.205/5.2	13.9	1.24	1.0/25.4	3.2
TFLX225-100	.225/5.7	10.2	1.24	1.1/27.9	4.1
TFLX295-100	.295/7.5	7.6	1.23	1.5/38.1	7.2
TFLX480-100	.480/12.2	4.8	1.32	2.4/60.9	19.4

50 OHM Polyethylene Coaxial Cable (PE)

PE P/N	Diameter (inches/mm)	Attenuation (dB/100ft) @1600MHz	Time Delay (nS/ft)	Min. Bend Radius (inches/mm)	Weight (lbs/100ft)
PFLX140-500	.140/3.6	25.2	1.27	.35/8.9	1.4
PFLX195-500	.195/4.9	14.0	1.24	.50/12.7	2.6
PFLX240-500	.242/6.1	11.0	1.26	.75/19.1	3.8
PFLX240-501	.242/6.1	10.8	1.23	.75/19.1	4.5
PFLX340-500	.340/8.6	7.5	1.23	.85/21.6	7.4
PFLX400-500	.405/10.3	5.2	1.20	1.0/25.4	8.4
PFLX500-500	.500/12.7	4.3	1.18	1.25/31.8	11.8
PFLX590-500	.590/15.0	3.4	1.16	1.5/38.1	13.1
PFLX900-900	.870/22.1	2.2	1.16	3.0/76.2	26.6

All values nominal.

TYPICAL CONNECTION DIAGRAM – MCDU DIALING



Typical Iridium and ACARS system configuration for global voice and safety messaging



Iridium CNS/ATM recommended global voice solution

All values nominal.

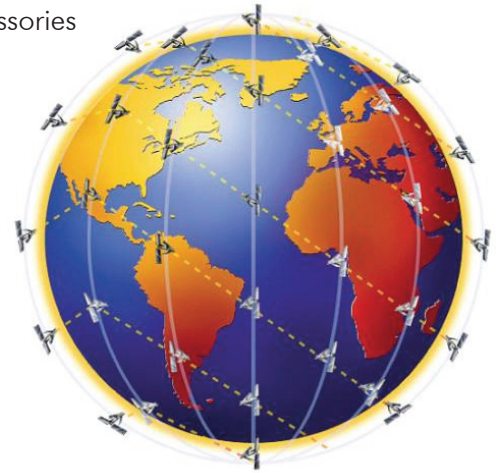
ADDITIONAL ICG PRODUCTS

Iridium Transceivers:

- ICG NxtLink Series ICS-120A
- ICG NxtLink Series ICS-120B
- ICG NxtLink Series ICS-120BF
- ICG NxtLink Series ICS-220A
- ICG NxtLink Series ICS-220AF
- ICG NxtLink Series ICS-220B
- ICG NxtLink Series ICS-220BF
- ICG NxtLink Series ICS-400
- DATALINK 100

CTU Devices:

- ICG AeroCom 1100
- ICG AeroCom 3000
- Telephones and Accessories



VALUE-ADDED CAPABILITIES

ENSURING COMPREHENSIVE SOLUTIONS AND SUPPORT FOR YOUR PROGRAM'S SUCCESS.

- Project and program management including on-site engineering support
- On-site technical support, 24-hour AOG support, and installation services
- In-house FAA DER, DAR, DMIR, and PMA certification expertise; FAA consulting services including DER major alteration approval
- Product development, design, testing and analytical services
- FAA and EASA STC development and design data package development with FAA Partnership for Safety Plan and sales/local authority certification approval coordination
- FAA and EASA approved structural repair development
- Transport Canada Aeronautical Products Manufacturer and Maintenance Organization approvals and Transport Canada Design Approval Organization at ACS-NAI
- Subcontract manufacturing services to airframe manufacturers and maintenance organizations

QUALITY ASSURANCE

EMTEQ's global quality inspection programs comply with EN/JSIQ/AS9100:2004, ISO9001:2008, or EN9100:2003 standards, as well as airframe OEM standard compliance for the consistent production of high performance products. EMTEQ has an approved FAA/EASA Part 145 Repair Station in New Berlin and an EASA Part 145 Repair Station in Switzerland. EMTEQ's New Berlin office is an FAA/PMA approved manufacturing facility. Additionally, we provide first article inspection, customer drawing log and revision control, as well as warehousing and lot control of customer supplied parts.

CONTACT US TODAY TO DISCUSS HOW WE CAN SUPPORT YOUR SPECIFIC NEEDS.

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