



The AeroCom 1100 cabin telecommunications unit (CTU) provides communications automation, medium integration and transceiver management facilities for aeronautical applications. Operational with standard telephony devices, the AeroCom 1100 replicates the conveniences and services offered by contemporary "executive-office" communications systems in an aircraft cabin. Voice, data and fax communications are simple without the requirement to learn unique operations, and functions common to proprietary telephone

systems.

Both the North American and European dialing plans can be adopted for familiar telephone operations such as call transfers, intercom calling, conferencing, call hold, etc. and can be easily implemented.

Communications circuit selection and transceiver control is automatic with required dialing modifications to support specific transceivers and networks performed transparently to the caller during call initiation.

COMMUNICATIONS SYSTEMS SUPPORTED

The AeroCom 1100 supports many different communications services and transmission devices. Standard offerings can be interfaced to aeronautical Inmarsat terminals (analog and CEPT-E1), Iridium and HF radio. As emerging technologies and systems come on-line, required interfaces are available to permit connection to these new systems. With the AeroCom 1100, a single

device will permit connection to a host of disparate communications systems without the requirement for wholesale platform change-out, or the requirement of additional devices to support each new service. An aircraft fleet can be standardized in equipment, operation and functionality regardless of the various communications systems implemented.

AeroCom 1100 Specifications

TELEPHONY CIRCUITS

- Two each 4-Wire analog trunk circuits for connection to Com transceivers with discrete hook & ring signals
- Two each 2-Wire analog trunk circuits for connection to Com transceivers
- Four each 12-volt DC utility power circuits for powering external com devices
- Digital echo suppression for satellite circuits (when required)
- Eight cabin station ports for connection to standard telephony devices
- Extension ports 2-Wire "Tip and Ring," standard 600 ohm AC impedance
- Dual CEPT-E1 configurable for ARINC 746 attachment 11 or 17 operations (SatCom)
- USB port for maintenance, service and call logging
- Eight discrete I/O circuits (8-opto isolated input, 8-relay driven outputs)

ENHANCED TELEPHONY FEATURES

Call on-hold and call transfer - simple hook flashes can place inbound, outbound or intercom calls on hold or transfer the call.

Three-party conferencing - the AeroCom 1100 system provides basic 3-party conferencing that permits a conference between two onboard callers and a ground party or two ground parties to a single onboard person.

Voice prompts for announcements and instructions - besides normal telephone progress tones such as dial-tone, engaged, re-order, and ring-backs, the AeroCom 1100 provides facilities for the customer to record event messages in any language that can be used as status messages, e.g. "No lines available at this time" or to provide instructions to callers (future option).

Direct Inward Station Access (DISA) - this feature

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permits ground based callers to directly select extensions on the aircraft such as telephone extensions, fax machine, computer modem, file server, etc.

Auto Fax Recognition - the AeroCom 1100 recognizes the CNG tone transmitted by a calling fax machine, and will automatically route the call to an onboard fax machine.

Intercom Calling - internal calling is provided to permit calling and to other extensions onboard and to provide conferencing of extensions within the aircraft.

Class of service restrictions to invoke PIN number access, credit card calling, or medium restrictions can be placed on individual extensions to control access to the communications systems and to permit accounting for each call.

COMPATIBILITY

The AeroCom 1100 is compatible with the following transceivers:

- Interfaces to: Honeywell MCS-3000, 6000, 7000 and Collins Sat-906, Sat-2000, 2100 (4-Wire analog ports or CEPT-E1)
- HF Radio with automatic voice actuated PTT functions
- Two circuits of analog voice with digital echo suppression
- Onboard PA system with automatic key-up of .
- Inmarsat Aero H, I and Mini-M
- Iridium (single and multi-channel)
- GTE AirFone (MagnaStar ARTU via CDBR)

SPECIFICATIONS

Chassis:	Length= 15.68 in (39.83 cm)
(Standard 2 MCU rack)	Width= 2.25 in (5.72 cm)
	Height= 7.6 in (19.3 cm)
	Weight= 5.4 lbs (2.45 kg)
Tray, 2 MCU:	Weight=1.0 lbs (0.454 kg)
Prime Power:	28-volt DC, 28 Watts



International Communications Group

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