

	COMMUNICATIONS SATCOM		1.23.45	P 1
			SEQ 100	REV 14

GENERAL

The Satellite Communication (SATCOM) system allows the exchange of information between the aircraft and a Ground Earth Station (GES), via geosynchronous satellites.

It provides up to six independent channels :

One channel is used for data transmissions (ATSU or ACARS). Two or five channels are used for voice transmissions (cockpit or cabin voice). The cockpit voice function must be activated, in order for it to be available. The cabin telephone system must be installed, to be able to use cabin voice function.

ACARS or ATSU communications normally transmit via VHF3. They automatically switch to SATCOM when VHF3 is not available.

The cockpit voice interface is controlled by the Audio Control Panels (ACPs) for call set-up and call termination, and by the MCDU for the call number selection. It allows the crew :

- To initiate air to ground calls and to receive ground to air calls.
- To select the call priority, in case of air to ground calls.
- To use manual dial or pre-recorded phone numbers.

SATCOM functions are programmed through the Owner Requirement Table (ORT), according to airline needs.

Due to the highly customized programming, the SATCOM functions may vary for different airlines and are, therefore, not described in detail.

CONTROLS AND INDICATORS

ACP INTERFACE

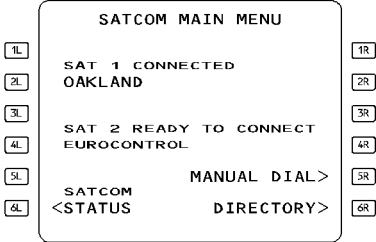
Refer to the 1.23.20 description.

MCDU INTERFACE

SATCOM MAIN MENU PAGE

The crew accesses this page by selecting SAT on the MCDU MAIN page.

FFCS-01-2345-002-A.202AA



- 2L (4L)(Label line) :

This field displays the SATCOM channel 1 (2) status :

 - READY TO CONNECT : The channel is ready to support a call.
 - NOT AVAILABLE : The channel is not available (failed or not logged).
 - DIALING : Cockpit call in progress.
 - INCOMING CALL : Advises of an incoming ground to air call.
 - CONNECTED : The circuit is connected.
 - CALL FAILED : The transmission is interrupted.
- 2L (4L)(Data line) :

This field displays :

 - The title of the selected phone number, in case of an air to ground call.
 - The number, if the MANUAL DIAL option is used.
 - GRND-AIR CALL, in case of a ground to air call.
- 5R :

This key provides access to the Manual Dial page. This page allows the dialing of a phone number.
- 6L :

This key provides access to the SATCOM STATUS page, which contains LOG ON and channel status information.
- 6R :

This key provides access to the SATCOM DIRECTORY PAGE.

SATCOM DIRECTORY PAGE

This page provides access to 4 phone number lists, where phone numbers can be memorized, according to their priority.

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SATCOM DIRECTORY

1L<EMERGENCY1R

2L<SAFETY2R

3L<NON-SAFETY3R

4L<PUBLIC4R

5L5R

6L<RETURN6R

- 1L

:

EMERGENCY for Priority 1 -

Reserved for emergency and distress phone numbers only.
- 2L

:

SAFETY for Priority 2 -

Reserved for regulatory and flight safety phone numbers only.
- 3L

:

NON-SAFETY for Priority 3 -

Reserved for non flight safety phone numbers.
- 4L

:

PUBLIC for Priority 4 -

Reserved for personal phone numbers.
- 6L

:

This key is used to return to the SATCOM MAIN MENU page.

SATCOM CATEGORY NUMBERS PAGE

The CATEGORY NUMBERS page provides access to the pre-recorded phone numbers.

As an example, the following figure shows the SAFETY CATEGORY NUMBER page.

	SATCOM SAFETY 1/3		
		SAT 1/2	
1L	*IOR CONTROL		1R
	00495218796214		
2L	*CDG ARPT		2R
	L0098564721336985J		
3L	*HGK ARPT		3R
	004632189752123		
4L	*ORD ARPT	SORT*	4R
	L533556722268		
5L	*ORY ARPT	FIND*	5R
	L004435566213J	[]	
6L	<RETURN		6R

1L, 2L, 3L, 4L, 5L

: These fields display the phone numbers and their titles.
When pressed, they dial the corresponding phone number.
There are two types of numbers :

- Protected : Displayed in green.

- Unprotected : Displayed in blue brackets.

1R

: This field displays the selected SATCOM channel.

4R

: This function alphabetically sorts the phone numbers, within the category, by title.

5R

: This function automatically searches for a phone number from the beginning of this category, by entering up to the first three letters of the title into the scratchpad, and by pressing 5R.

6L

: This key is used to return to the SATCOM DIRECTORY page.

SATCOM MANUAL DIAL PAGE

The MANUAL DIAL PAGE enables the crew to initiate an air to ground call by manually entering a phone number.

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SATCOM MANUAL DIAL

1L

PHONE NUMBER

2L

0033546454373432J

3L

SAT 1/2

4L

2

5L

PRIORITY↑↓

6L

NON-SAFETY

1R

2R

3R

4R

5R

6R

<RETURN

PRE-SELECT*

- 2L (data line) : This field displays the phone number in blue brackets, after having been entered in the scratchpad.
- 4L : This field displays the selected SATCOM channel.
- 5L : This field displays the priority for the manual dial number. The priority can be changed by pressing the slew up or down keys on the MCDU keyboard.
- 6L : This key is used to return to the SATCOM MAIN MENU page.