

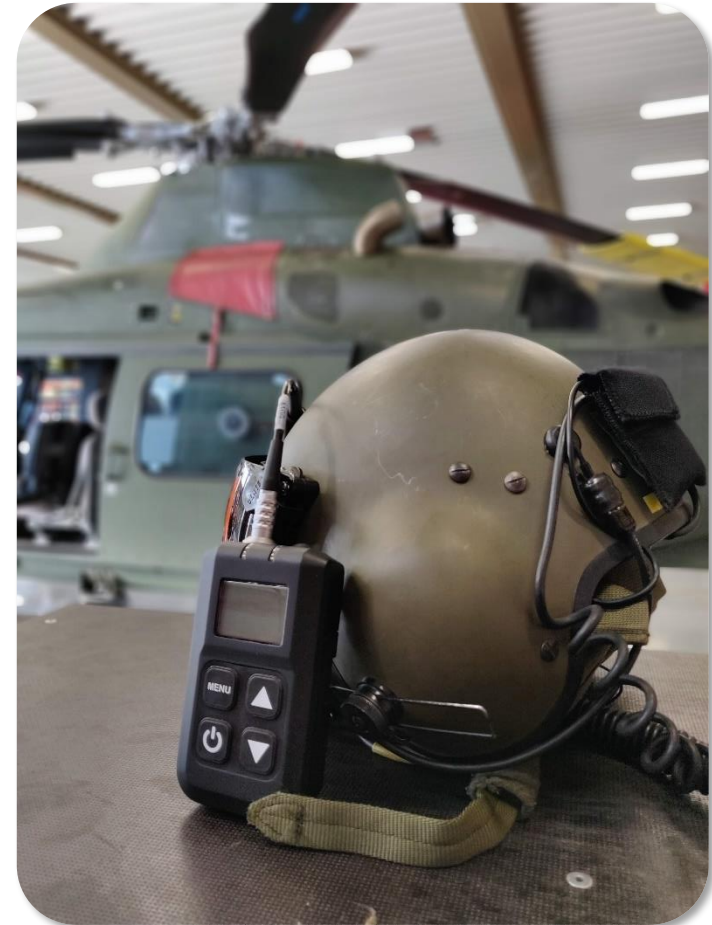
AirLink 30851A

Aircraft and Helicopter Wireless Intercom System



AIRLINK 3085IA PRESENTATION

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1 - Globalsys short presentation

- French company created in 1997
- Specialized in Cordless Audio, Wireless & Embedded Systems
- Partnership/ Cooperations with Airbus Innovation, Telerad, Dassault Aviation, ...
- Activities within Aeronautics, Defense & Industrial domain

Product Ranges:

AirLink 2085



*Cordless Headset
Airports, Airlines*

AirLink 3085



*Cordless Headset
Helicopters, Military*

Airlink 3085W



Cordless headset for light boats

Safe Link



Wireless autonomous DECT network

2 - Main applications



3 - System description



Mobile station connected to any headset or flight helmet and linked to the base station. For HHO, Medic, rescue team, swat team.



Autonomous headset linked to the base station. For Maintenance, ground crew, victims, passengers....Etc



Base station plugged inside the cargo, as an helmet, to the wired intercom. Linked to 8 mobiles/autonomous headsets



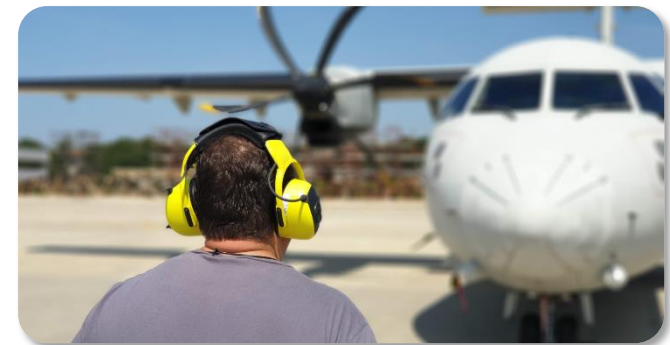
3 - System description

The AirLink 3085 is :

- A wireless extension of the intercom system
- Allow a **full duplex** communication
- Up to **8** users

With specific Globalsys features :

- Encrypted digital voice system (32kb/s)
- Frequency and time slot hopping
- Vocal alerts
- **Active noise canceller** (Digital microphone filter)
- VOX and SQUELCH function
- Adaptable to any aircraft / helicopter



3 - System description

AirLink 3085 composition:

- One base station connected to the **Aircraft Intercom System**
 - Ensure the audio mixing of all the mobile stations
 - Ensure the audio interface with the Aircraft
 - Adaptable to any aircraft on the spot by adapter
- Up to 8 mobile stations
 - Adaptable to any flying helmet or headset
 - Available in integrated headset



integrated headset

Qualifications:

- Qualified to MIL STD 810F & 461C*
- HERO Qualified
- **COMBAT PROVEN** by French AirForce 
- Temperature range -30 °C to + 60 °C

* By equivalence



mobile stations



base

3 – System description



DO160G	Section 21 Emission of Radio Frequency Energy
DO160G	Section 4 Temperature
DO160G	Section 5 Temperature Variation
DO160G	Section 6 Humidity
MIL-STD-704F	28V DC category
MIL-STD-810H	§514.8 Vibration
CEI 60529	IPx7 / IPx8 tests
DO160G	Section 20 Radio Frequency Susceptibility (Radiated and Conducted)
MIL-STD-810H	§516.8 Shock
DO160G	Section 7
EN 62368-1	According to Directive 2014/35/EU Low Voltage Directive
EN 62479	According to directive 2014/30/EU Electromagnetic compatibility
EN 301 489-1 V1.9.2	According to directive 2014/30/EU Electromagnetic compatibility
EN 301 489-6 V1.3.1	
EN 55032 & EN 55024	
DO160G	Section 4.6 altitude
DO178	Software qualification
AECPT500	Emission of Radio Frequency Energy

4 - Base station



Adaptable Base Unit

- **Adaptable to any aircraft** on the spot (any helicopter, Rafale, C130, Mirage 2000, Eurofighter Typhoon)
- **Removable battery pack**
- **Autonomy 15h**
- **Encrypted Digital voice system (32kb/s)**
- **Radio Frequency: 1880 to 1898 MHz**



Fixed on-Aircraft Base Unit

- **Metallic Base** directly connected to the ICS
- Aircraft powered (from 16 to 36Vdc)
- 8h of autonomy in case of power supply failure

5 - Integrated headset

- Integrated electronics & Battery
- Up to 8h autonomy
- Vocal announcement
- Passive noise canceling microphone
- Noise cancelling audio treatment
- VOX
- SNR:32dB
- Rain proof: IP 54

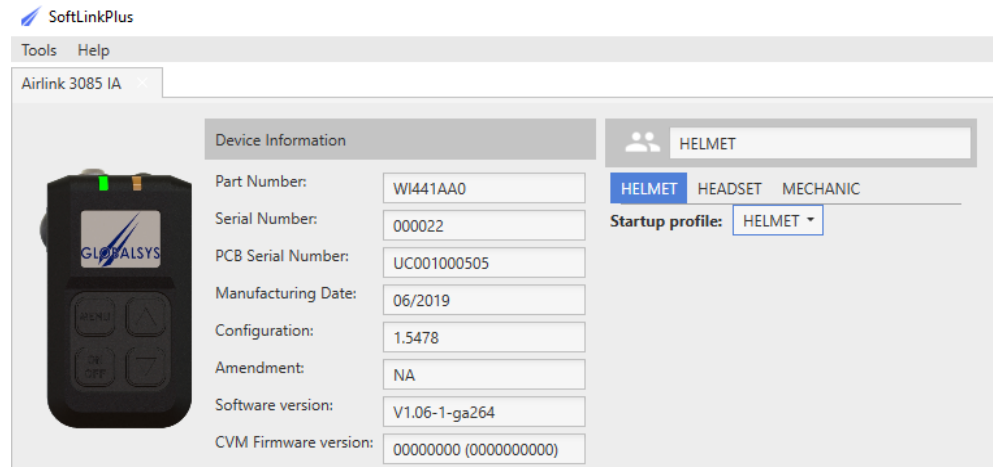


6 - Mobile unit



- Adaptable to every headset or helmet
- Removable battery pack
- up to 16h autonomy
- Fully waterproof: **IP 68**
- Vocal announcement
- Microphone **Noise cancelling**
- Large display with backlight
- Adjustable VOX based on **voice detection**
- **Cockpit isolation** options
- **NVG** ready
- **Profile selection** : equipment can be customized to each user

7 - Mobile unit configuration

SoftLinkPlus
Tools Help

Airlink 3085 IA

Device Information

Part Number:	WI441AA0
Serial Number:	000022
PCB Serial Number:	UC001000505
Manufacturing Date:	06/2019
Configuration:	1.5478
Amendment:	NA
Software version:	V1.06-1-ga264
CVM Firmware version:	00000000 (0000000000)

Profile Selection: HELMET (selected), HEADSET, MECHANIC

Startup profile: HELMET

For each profile, user can customize through Softlink :

- Volumes steps
- Vox steps
- Audio levels
- Start up preferences
- Choice of language

→5 profiles can be stored on the unit and loaded on the spot.
eg: If different type of headsets are used on the same aircraft, unit can easily be configured to match with the connected headset.

8 - SOFTLINKplus features

CHOOSE YOUR PROFILE

SET UP AS YOU WANT

MODIFY YOUR AUDIO AND MICROPHONE SETTINGS

9 - Mobile unit options



Options available :

- Long range
- Bluetooth connectivity
- External radio connexion

Possible options :

- Remote recognition
- Direct mode
- Broadcast Mode

10 - Remote recognition

Recognition principle :

The user scan the in range aircrafts, retrieve their Tail n°, and select the one to talk with.



Plate number : F-AAAA



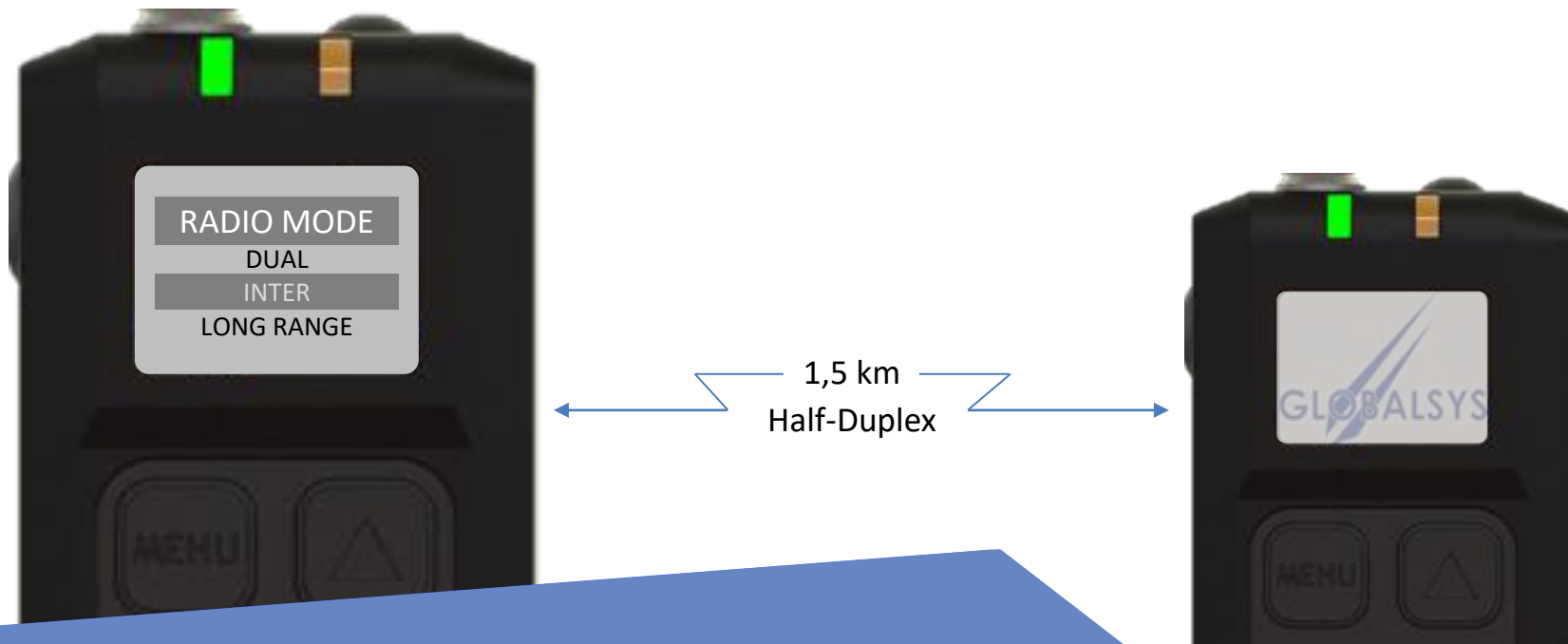
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Plate number : F-CCCC

11 - Long range communication

In parallel of the full-duplex communication in place with the base unit, you may use a half-duplex communication between different mobile units to extend the range up to 1,5km (*depending on the environment you're operating*).



12 - Worldwide references

Helicopters and Aircraft manufacturers



Military, Governmental Forces and civilian Operators



Brazilian Army



NH 90 / AW 109



Abu Dhabi Police,
Helicopters



Israel Air Force,
(ORBIT Partner)



French Air Force



French Army



French Navy



French Ministry of Defense



Portugese AirForce



F/A 18



AW 139



French Military Shipyards



Tigre, C130

⇒ More than 1000 systems* sold all over the world over the last 5 years

* : AIRLINK 2080, 3080 & 3085 (all based upon similar technology) together

13 - Aircraft

- AH225M
- NH 90
- Tigre
- AW 109
- AW 139
- MI 17
- CASA
- C 130
- Dassault Rafale
- Dassault M2000
- F/A18
- MRTT Phenix



14 - Strong points

- GLOBALSYS has a proven experience of Cordless systems for Helicopters & Aircraft.
- Easily adaptable (**Plug&Play**) option for the base Station: no Aircraft modification, immediately available.
- Affordable solution that allow many new scenario.
- Highly performing Digital Audio with Micro **Noise reduction**, thanks to most recent communication processor and voice signal processing.
- Various options available for Tailored applications adapted to many mission profiles

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Thank you for your attention!



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SAFETY
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