

# Datasheet

## Mobile Airlink 3085IA



### Product description

The Mobile beltpack is a lightweight, portable communication device designed to provide hands-free, wireless communication for ground crews in aviation and industrial environments. Worn conveniently on the belt, it allows users to maintain clear and reliable audio communication with aircraft and other team members while remaining mobile. Its robust design ensures durability and consistent performance, even in noisy or demanding conditions.

### Main characteristics

- Connection guaranteed in all circumstances up to 300 m range in full duplex (users can emit and receive at the same time)
- Adaptable to any headset profile
- Vocal announcement and wireless for hand free using
- Digital voice activated micro (VOX)
- No latency time for instant reactivity
- Intuitive and user friendly
- High audio quality thanks to a large audio wideband (200-7000 Hz)
- Up to 16 h battery life with removable battery
- Charging through USB-C
- Digital Noise filtering
- Large graphic display with backlight
- DO160G and MIL-STD qualification
- Cockpit isolation
- Remote PTTNight vision friendly

### Options

- Long range
- Bluetooth

### Accessories

Name	Part number (PN)	Quantity
Mobile Cover 3085IA with clickfast hook	BAG446	5
Spare removable battery pack USB-C charging plug IP65	BAT511AA	1
Spare removable battery pack USB-C charging plug IP68	BAT511AB	1

### Our others Airlink products...



**Airlink 3085IA plug&play  
base**



**Airlink 3085IA wireless  
headset**



**Airlink 3085IA fixed  
embedded base**

## Radio

Frequency range	1870 - 1930 MHz (adjusted according to local regulation)
Transmit power	EU:23dBm; US/JPN:21dBm
Receive sensitivity	-93 dBm
Modulation	GFSK 1.152 Mbaud
Range	Line of sight
Speech encoding	ADPCM
Number of channels	120

## Battery

Battery type	2600mAh 3.7V Li-Ion
Battery life	Up to 15h
Rated capacity	Min. 1880 mAh
Capacity	Min. 1880 mAh Typ.2000 mAh
Nominal voltage	3.7V
Charging	CC-CV, Std.1880 mA, 4.20V, 3.0hrs
Temperature	Charge : 0 to +45°C

## Long range option

Frequency	2.400–2.478 GHz–max. 20dBm TX power
Range	up to 4 km LOS with external antenna 1 km with built-in antenna
Channels	64 frequency channels (16 pre-sets) with 1.2 Mhz bandwidth
Vocoder	3600bps low bit rate
Call modes	Peer to peer (up to 256 calls), Group Call or Broadcast mode
Data Modes	SMS style data
Latency	approximatively 250ms

## Audio adaptation of the mobile

Headset	Microphone	Loudspeakers
<b>Low level/High impedance</b>	850 $\mu$ V max RMS (Root Mean Square) / 75 $\Omega$	100 mW / 600 $\Omega$ (7.75 V max / 600 $\Omega$ )
<b>Low level/Low impedance</b>	220 $\mu$ V max RMS / 5 $\Omega$	100 mW / from 8 to 10 $\Omega$ (900 mV max / 8 $\Omega$ )
<b>High level/High impedance</b>	400 mV max RMS / 150 $\Omega$	100 mW / 600 $\Omega$ (7.75 V max / 600 $\Omega$ )

## Environment

Temperature	-20°C to +60°C
IP protection level	IP65 ; Option IP68

## Audio

Bandwidth	200 - 7000 Hz at -3dB
Signal to Noise Ratio (SNR)	=>60dB
Distorsion	< 3%

## Dimension and weight

Dimension :	124 x 68 x 32 mm
Weight :	256 g

## Bluetooth option

Frequency	2.402 GHz to 2.480 GHz
Receive sensitivity	-90 dBm (2 Mbps EDR)
Bluetooth version	Version 5 Certified Class 2 2 dBm output power
Profile supported	A2DP 1.3, AVRCP 1.6, HFP 1.7.2, HSP 1.2, SPP 1.2
Connections	2 with HFP/A2DP profiles simultaneously

## Color code of the sleeves for the different adaptations

Colour	Adaptation	Shortcut in English
<b>BLACK</b>	<b>High level/High impedance</b>	HL/HZ
<b>BLUE</b>	<b>Low level/High impedance</b>	LL/HZ
<b>RED</b>	<b>Low level/Low impedance</b>	LL/LZ
<b>YELLOW</b>	<b>High level/Low impedance</b>	HL/LZ