The iCan system

Oxytronic decided to launch his first product from his research department : the iCan system (Trademark). This system is an entertainment system IFE (In Flight Entertainment) system easily transposable in the maritime, aviation or domestic domain. Oxytronic invites you to discover this system in its premises or on its stand at the Salon du Bourget.

The iCan system is composed of seven elements :

- The iCan UC.
- The iCan Touch.
- The iCan Screen 7".
- The iCan Splitter.
- The iCan Moving Map 3D.
- The iCan Headset Wireless.
- The iCan Phone.

This system offers to its users :

- To enjoy multimedia content (listen to music, watch videos or view photos).
- Management of the lighting..
- Calls via the satellite network.
- The iDevice management.
- The « moving map » in real time.

❖ The iCan UC.

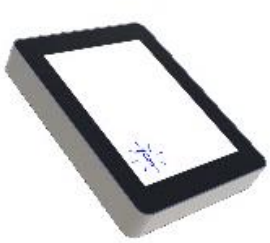
This is the central unit of the iCan. It contains the modules mounted on a motherboard. The iCan UC can contain from 1 to 7 optional cards.

The 7 modules are called the iCan Mix, the iCan Control, the iCan Dial, the iCan iPod, the iCan Tip&Ring, the iCan I/O and the iCan PWM. All modules are connected together by the CAN bus.

Oxytronic adapts to the needs of its customers and allows customization of optional cards.

❖ L'iCan Touch.

The Touch Screen (4.3" or 5.7") allows users to easily control the functions.



The equipment supports supply voltages ranging from 12VDC to 36VDC for maximum compatibility with the aircraft electrical network.

The integrated Data Bus provides the ability to interact with modules located in the iCan UC, but also with other iCan Touch or iCan Screen 7".

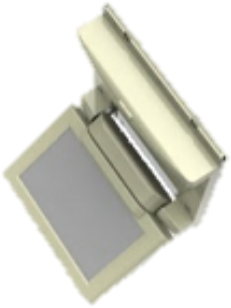
Up to 124 iCan peripherals can be wired to the iCan system.

❖ L'iCan Screen 7".

The 7" Touch Screen allows users to display video contents and easily switch between differents sources. The iCan Screen 7" is a dual axis swivelling screen and can be folded into its slot.

With his touchscreen, it is also equipped with communication links like CAN bus, Ethernet and USB.

This equimement was developed with vibration dampers, increasing the « visual » comfort. The iCan Screen 7" is fixed on ceiling and accepts different video sources (3 digitals videos inputs and 3 analogs videos inputs).



The iCan Screen 7'' can also be furnished with manual or motorized opening version and it can be remplaced by an iCan Touch.

❖ L'iCan Splitter.

The iCan Splitter has the function to convert and distribute an analogue input to 10 digital outputs to LVDS size. It consists of 3 analog VGA input, S-Video and Composite. Selecting the input source is made either via the iCan Touch or iCan Screen7'' or using a switch.

The inputs are equipped with an automatic detection of the resolution and format of the video stream.

❖ L'iCan Moving Map 3D.

Launched in partnership with Planet observer company and Telespazio company : the iCan moving map 3-D system is a geo-localization 3-D system completely customable.

It allows a 3-D scenery view of the ground movement in high resolution. It communicates with the ARINC BUS of the aircraft.

It has a complete interfacing with the iCan system (Views piloting, flying parameter…) and VGA and/or HDMI outputs.

❖ L'iCan Headset Wireless.

This product on Sennheiser S1 digital headset model provides the possibility to suppress the physical link with the board without any performance loss.

The use of the ISM band at 2.4 GHz gives the ability to keep a high fidelity audio transmission in the helicopter cabin's harsh environment.

The use of a new differential microphone gives an improved noise rejection during the intercom speech.

A bluetooth link is embedded into the base station, allowing an easy connection with any mobil device.

❖ L'iCan Phone.

This product is defined by the combination of a base connected to the transmission network of the helicopter and a cordless handset for HF connection of the telephone conversation with the base.

The basic features are those of a telephone with a number of features and provides good noise rejection.

Of course, this product is used either alone or integrated into a iCan system to take full advantage of its technical capabilities.

✓ iCan UC.

Technical Specification	iCan UC
Size	175mm x 158mm x 145mm
1,5Kg	1,5Kg
Power Supply	28VDc, 100mA MAX
Power Consumption	80W MAX
Operational Temp. Range	-10°C to +70°C
Communication Interfaces	- 1 Can Bus - 1 Ethernet 10/100 - Base T
Slots / Cards	7
Qualification / Specification	RTCA DO-160E

✓ iCan Touch.

Technical Specification	iCan Touch V1	iCan Touch V2
Size	152mm x 95.5mm x 35.95mm	131mm x 102mm x 25mm
Weight	420g	500g
Rear Conector	CMM 220 26 PTS	CMM 220 26 PTS
Power Supply	12VDSC to 36VDC	12VDC to 36VDC
Power Consumption	6.5W MA	6.5W MAX
Operational Temp. Range	-10°C to +70°C	-10°C to +70°C
Operating System	Windows CE 5.0	Windows CE 5.0
Audio Interfaces	- 1 stereo output - 1 stereo inout - 1 mic input	- 1 stereo output - 1 stereo inout - 1 mic input
Communication Interface	- 1 Ethernet 10/100 Base T - 1 Can Bus - 1 USB 2.0	- 1 Ethernet 10/100 Base T - 1 Can Bus - 1 USB 2.0 - Wi-Fi - Capacitive Multi-Touch
Processor	PXA320IT 520MHz	TEGRA 3 NVIDIA
RAM	128MB DDR RAM	1GB DDR RAM
Mass Storage	1GB NAND Flash	2GB NAND Flash
Data Loading	Via USB	Via USB
Qualification / Specification	RTCA DO-160E	RTCA DO-160E

✓ Ican Screen 7".

Technical Specification	iCan Screen 7"
Size	280mm x 195.6mm x 45.25mm
Weight	1.750Kg
Rear Conector	- 3 LVDS (digital) - 1 VGA (analog) - 1S-Video (analog) - 1 composit (analog)
Power Supply	12VDC to 36VDC
Power Consumption	6.5W MAX
Operational Temp. Range	-10°C to +70°C
Communication Interface	- 1 Ethernet 10/100 Base T - 1 Can Bus - 2 USB 1 SD CARD Port
Processor	PXA320
Data Loading	Via USB
Qualification / Specification	RTCA DO-160E

✓ iCan Splitter.

Technical Specification	iCan Splitter
Size	188.60mm x 43.3mm x 105.3mm
Weight	460g
Connector	- SUB-D9 - SUB-D15HD - SUB-D15 - MDR 14
Power Supply	12VDC to 36VDC
Power Consumption	22W MAX
Operational Temp. Range	-10°C to +70°C
Video Input	- 1 VGA - 1 S-Video - 1 Composite
Video Output	10 digital LVDS
Communication Interface	1 Can Bus
Data Loading	Bootloader on Touch
Qualification / Specification	RTCA DO-160E

✓ iCan Moving Map 3D.

Technical Specification	iCan Move
Size	140 x 150 x 150mm
Weight	5Kg
Connector	- 851 series - SubD
Power Supply	28V
Power Consumption	3 Amp MAX
Operational Temp. Range	-20°C to +70°C
Video Output	VGA
Communication Interface	- CAN Bus - ARNIC
Data Storage	250Go
Qualification / Specification	DO160E – MIL STD 810F

✓ iCan Headset Wireless.

Technical Specification	iCan Wireless Headset
Size	Headset 480g Base Station 210g
Connector base station	- Lemo 6 pins - Sub D 25 pins
Power Supply	12VDC to 36VDC
Power Consumption	2.5W MAX
Operational Temp. Range	-10°C to +70°C
Sound Input	HN HZ
High fidelity capability	20Hz – 16KHz
Microphone output	HN HZ or BN VZ
Rf communication range	20 meters
Communication Interface	1 Can Bus for control
	Bluetooth 4.0
Qualification / Specification	RTCA DO-160E

✓ iCan Phone.

Technical Specification	iCan Phone
Size	215 x 73 x 80mm
Weight	0.36Kg
Connector	Sub D 25 pts
Power Supply	28V
Power Consumption	0.25Amp MAX
Operational Temp. Range	-20°C to +70°C
Sound Input	150mV to 7V
Sound Output	250mV / 100ohms
Communication Interface	- CAN Bus - Bluetooth
Frequency range	ISM Band 2.4GHz
Qualification / Specification	RTCA DO-160E