

TITAN
COMMUNICATION SYSTEMS

The Reliable Choice



The Titan Company

About Us

Titan Communication Systems has 20 years of experience with customized audio solutions for critical communications. Our customers rely on our extensive technological know-how, and we focus on delivering the ideal solution every time, always striving for innovation and optimum performance. With equal amounts of precision, perfection and passion we take on any challenge to design or improve your critical communication solutions and accessories.

A UNIQUE MIX OF TECHNOLOGY AND CRAFTSMANSHIP

Since 1996 Titan Communication Systems has been a leading developer of mobile audio solutions and products for critical communication. Close communication and cooperation with our customers is the cornerstone of our company ensuring that we understand your needs and requirements whether you are looking for a product or a solution. Excellence in technologies, expertise in engineering, and rigorous quality control throughout every process are principal lines in our business, making Titan the reliable choice.

Craftsmanship is a key factor when making tailor-made solutions. Our dedicated staff have extensive design and engineering capabilities and profound technical experience

in the assembly of all products. Quality control is managed by our office in Emerainville, just outside Paris, France. Advanced software capabilities are developed by specialists in Copenhagen, Denmark.

CHALLENGES REQUIRE SOLUTIONS

Communication in challenging environments is a question of clarity, precision, and reliability. People work under constant pressure in a wide range of demanding situations.

That is why Titan mobile audio solutions are based on state of the art technology to meet your demands for reliability at the highest level.

Most of Titan Communication Systems' solutions and products are custom-made, specifically developed in close cooperation with our customers around the world.

Driving 200 km per hour on a Police motorcycle, working on an oil platform in the Atlantic Sea, or communicating in a helicopter require different solutions that standard products cannot solve with proper safety and reliability. That is why our solutions for critical communication are individually customized to meet the needs and specifications of your business.

THE TITAN PRODUCTS

No matter the purpose or use, the environment or the situation, high-end audio quality is a must at all times.

Titan Communication Systems' solutions are always individualized and manufactured to provide the best audio quality.

Titan is in the business of mobile audio communication systems with emphasis on mobile products. We are committed to deliver safety, efficiency and security to our customers because we know that there must be no compromises with high-end quality solutions.

The range of our products contains:

- TITAN ATEX/IECEX
- TITAN Helmet Solutions
- TITAN DECT
- TITAN SPEAKER MICROPHONES
- TITAN Motorcycle Systems
- TITAN AIRCRYPT™

INDUSTRY SUGGESTION ICONS



Industrial



Police & Emergency



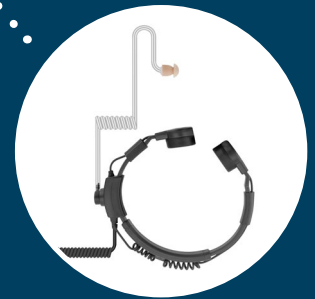
Fire & Rescue



ATEX/IECEX

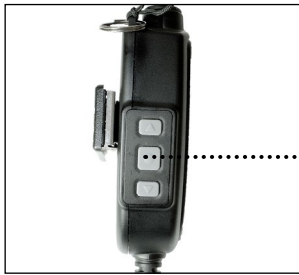
The Titan Modular Nexus Concept

Push-To-Talk Base Units



Push-To-Talk Base Units

MM20 - Remote Speaker Microphone



Volume control +/- and microphone mute or loudspeaker mute (optional)



Side PTT



3.5 mm audio jack

Emergency button (optional)



Nexus connector

Front PTT

THE TITAN REMOTE SPEAKER MICROPHONE

The Titan Remote Speaker Microphone MM20 is a versatile accessory product with front and side PTT. The Nexus connector and 3.5mm jack socket enable users to combine the MM20 with a multitude of audio accessories, making it ideal for users needing to connect helmet audio systems.

The MM20 offers an optional volume control +/- and programmable button. Depending on the chosen radio, the MM20 also comes with an optional emergency button. The MM20 comes in a variety of colour options.

INDUSTRIES



OPTIONS



Wireless Finger PTT

Technical data

Microphone	Omni directional	Environmental specifications	
Sensitivity	-36dB +/- 3Db	Operating temperature	-25° C to +60° C
Speaker	40mm Ø Dynamic	Storage temperature	-40° C to +85° C
Output power	1W Max 2W	Mechanical specifications	
Output level	92dB +/- 3dB	Cable flex life	50,000 cycles
Frequency range	680Hz ~ 20KHz	Cable pull strength	Axial 13 kgs
		PTT switch life	100,000 cycles
		Protection rating	IP67

Push-To-Talk Base Units

PTT20 - Large Body PTT



360° Rotating clip



Nexus connector



Front PTT

THE TITAN LARGE BODY PTT

The Titan Large Body PTT, the PTT20, is a flexible and versatile communication accessory, specially designed for Fire & Rescue services.

The extra large Push to talk button on the front makes it easy to communicate, even underneath gear and protective clothing, while wearing gloves.

Thanks to the nexus connection, you can have a wide range of communication devices to combine with your PTT20.

INDUSTRIES



OPTIONS



Various PTT colors

Technical data

Size	85x70mm	Environmental specifications	
Weight	175 g	Operating temperature	-25° C to +60° C
Connector	Radio Specific	Storage temperature	-40° C to +85° C
Humidity	95% RH, 63°	Mechanical specifications	
Supply Voltage	2,5 - 10 vdc	Cable flex life	50,000 cycles
PTT color options	Red, Black and Grey	Cable pull strength	Axial 13 kgs
		PTT switch life	100,000 cycles
		Protection rating	IP67

Helmet Communication Units

HUC1 - Helmet Communication Insert



The Titan Helmet Communication Insert

The Titan HUC1 is an ideal helmet communication unit for MSA F1, F1SF and F2 helmets.

The unit can be connected directly to the radio or to a speaker microphone or a PTT Unit.

The state of the art waterproof (IP67) electret microphone provides clear communication. Furthermore the HUC1 enables users of respiratory masks to fit the microphone close to the audio gateway of their mask.

INDUSTRIES



OPTIONS



*ATEX/IECEx
version (red)*

Technical data

Speaker		Sound	
Diameter	40 mm	Microphone :	Electret condenser differential Noise cancelling, Waterproof im- mersion IP67, 330 mV to 114 dB SPL
Rated power	1 W	Frequency response :	100 to 10 kHz (Δ10dB)
Frequency response	600 Hz to 7 kHz		
SPL	92 dB		

Helmet Communication Units

HUC2 - Skull Microphone



The Titan Skull Microphone

The TITAN Skull Microphone provides clear communication in all environments. The Skull Microphone is an ideal accessory for users needing to communicate with co-workers while wearing structural fire helmets.

The Skull Microphone can easily be installed in most helmets with just the use of velcro tape. Both ATEX and NON-ATEX versions available.

The Skull Microphone comes as standard with mono loudspeaker, but stereo loudspeakers are also available.

INDUSTRIES



COMPATIBLE HELMETS



MSA Gallet F1SF

Rosenbauer Hero

Draeger HPS6200

Technical data

Weight	85g	Speaker impedance:	32 Ohm
Size	40x160	Connectors:	4-pole quick-release connector
Cable:	2.9mm PU	Operating temperature:	-25 to +85°C (continuous)
Microphone:	Vibration-sensitive, impedance approx. 3500 Ohm @ 1 khz	Storage temperature:	-25 to +63°C
		Humidity:	95% RH, 63°C for 500 hours

Helmet Communication Units

HUC5 - Helmet Communication Insert



Coiled cable (Optional)



Left or right side (Optional)



The Titan Helmet Communication Insert

The HUC5 should be a permanent item for your fire and rescue communication setup when wearing a MSA Gallet F1SF or F2 helmet.

This comprehensive communication device can be directly connected to a speaker microphone or a PTT using the Nexus connection.

The HUC5 comes in a stereo, single and listen only version for your helmet and critical communication needs.

INDUSTRIES



COMPATIBLE HELMETS



MSA Gallet F1SF



MSA Gallet F2 X-TREM

Technical data

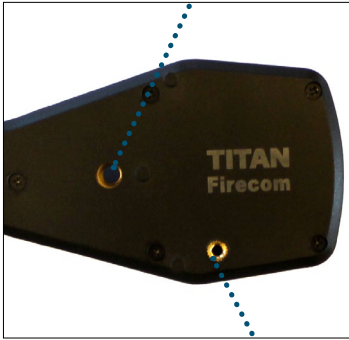
Loudspeaker specifications		Cable	
Normal size	40mm, 1,5 inch.	Cable length	55cm
Resonant frequency	530 Hz \pm 150 Hz at 1 V	Type	Straight or coiled flame retardant ULV.0
Impedance	8 Ohm \pm 15% at 1 KHz 1 V	Connector	Nexus TP120 connector
Sound pressure level	90 dB/w \pm 3 dB 0.5 w 50 cm ave at 0.8K, 1K, 1.2K, 1.5K Hz	Microphone	
Response	Fo Hz \sim 6 KHz max 10 dB	Generating element	Electret condenser
Input power	Nominal 0.5 W - Handling capacity 1.0 W	Sensitivity	-33 to -25dB ref 1 Vms (1KHz and 1PA at 1/4)

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Helmet Communication Units

HUC6 - Modular Helmet Communication Device

Screw hole for adapter mount



Screw hole for adapter



The Titan Modular Helmet Communication Device

This modular-based communication device delivers clear communication in all environments. The HUC6's special 2-screw design makes it compatible with most protective helmet with just the use of an adapter. Titan offer a variety of adapters that are easily mounted onto the protective helmets and have an uncompromising fit.

This comprehensive communication device can be directly connected to a speaker microphone or a PTT using the Nexus connection.

INDUSTRIES



COMPATIBLE HELMETS



MSA Gallet F1SF



Rosenbauer Hero



Draeger HPS6200

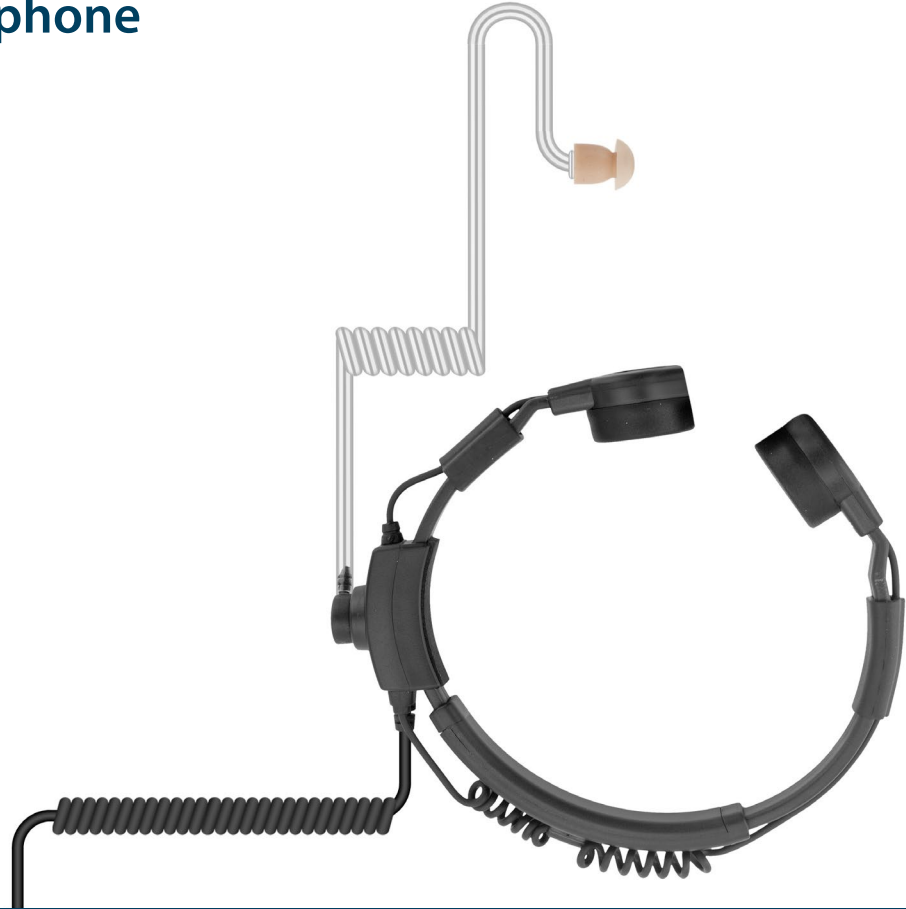
Technical data

Loudspeaker specifications		Cable	
Normal size	40mm, 1,5 inch.	Cable length	55cm
Resonant frequency	530 Hz \pm 150 Hz at 1 V	Type	Straight or coiled flame retardant ULV.0
Impedance	8 Ohm \pm 15% at 1 KHz 1 V	Connector	Nexus TP120 connector
Sound pressure level	90 dB/w \pm 3 dB 0.5 w 50 cm ave at 0.8K, 1K, 1.2K, 1.5K Hz	Microphone	
Response	Fo Hz \sim 6 KHz max 10 dB	Generating element	Electret condenser
Input power	Nominal 0.5 W - Handling capacity 1.0 W	Sensitivity	-33 to -25dB ref 1 Vms (1KHz and 1PA at 1/4)

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Tactical Communication Units

TM - Throat Microphone



The Titan Throat Microphone

The TITAN Throat Microphone provides clear communication in all environments. The Throat Microphone is an ideal accessory when discretion is needed.

The Throat Microphone comes with an acoustic tube earphone and the throat band is adjustable for a comfortable feel. The solid Nexus connector enables endless communication options.

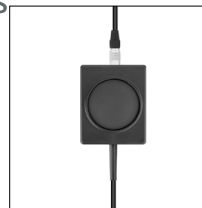
The Throat Microphone comes in both an ATEX and NON-ATEX version.

INDUSTRIES

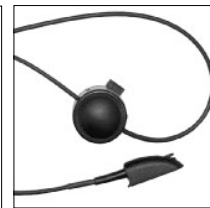


OPTIONS

*ATEX PTT
Inline*



*NON-ATEX
PTT Inline*



Technical data

Microphone	Electret Microphone	Headset type	Acoustic Tube Headset
Impedance	32 ohm	Connector	Nexus TP120 (standard) Inline PTT with radio specific connector comes as an option
IP rating	IP56		
Weight	110 g	Color	Black
Speaker	Piezo		

Tactical Communication Units

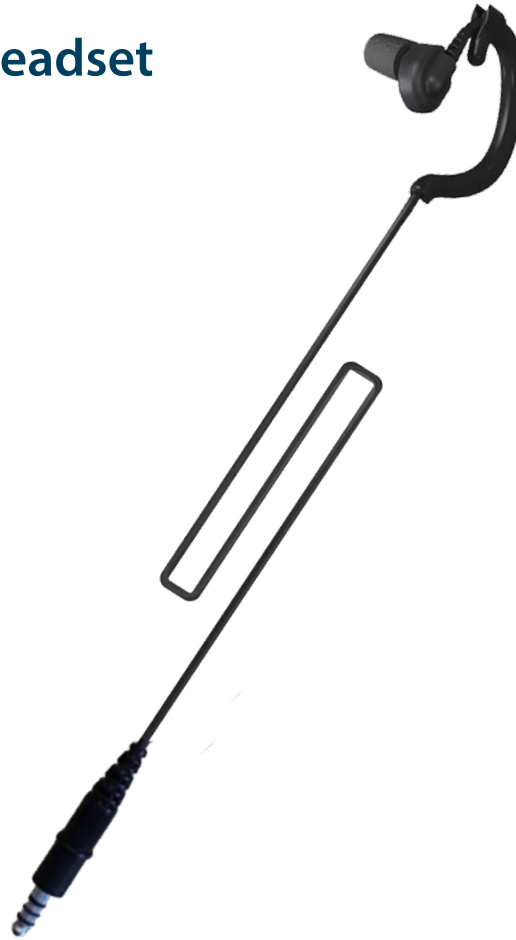
IE1 - In-Ear Microphone Headset



Behind-the-ear hook and 3 different sizes eartips included



Built-in PTT Inline (optional)



The Titan In-Ear Microphone Headset

The TITAN In-Ear Headset with Microphone is the perfect critical communication solution for users in challenging, loud environments that need clear communication at all times.

The patented In-Ear Microphone captures speech patterns in the ear canal to deliver clear sound even when you are whispering. The In-Ear Headset comes with various foam sizes to ensure optimal comfort when using the headset.

The solid Nexus connector enables endless communication options.

INDUSTRIES



OPTIONS



Compatible items

Technical data

Microphone		Connector	Nexus TP120 / 2.5mm jack / 3.5mm jack
Type	Electret Condenser Microphone		
Output impedance	2.2kΩ	Environmental	
Speaker		IP Rating	Designed to meet IP67
Impedance	DCR: 16Ω ± 15% ACR: 16Ω ± 15% ohm	MIL STD	MIL-STD-810
Max Input Power	5mW	Operating temperature	-20 to +60 degrees C
Passive NRR	31 – 33 dB, ANSI S12.6-2008, Method A	Storage temperature	-33 to +71 degrees C

Tactical Communication Units

IEMA - In-Ear Microphone PTT Headset with Ambient Mics



The Titan Tactical In-Ear Ambient Mic Headset

The TITAN Tactical Headset with Ambient Mics is a communication device specially designed for the battlefield. The ambient mics make sure that the user's ear is protected from high noises, while ensuring situational awareness at all times.

The patented In-Ear Microphone captures speech patterns in the ear canal to deliver clear sound even when you are whispering. The inline box has a side PTT, volume and ambient mic control and uses a CR123 Lithium 3 volt battery.

INDUSTRIES



OPTIONS



Comes with 3 different sizes of eartips

Technical data

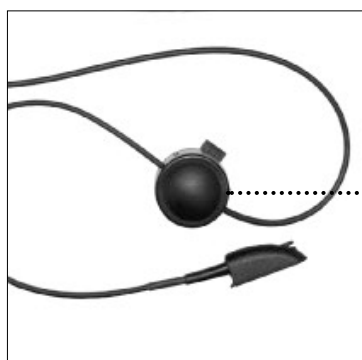
Microphone		Speaker	
Mic Max SPL	116dB SPL	DC Resistance	DC Resistance: 25Ω ± 10%
Output impedance	2.2kΩ	Impedance	@ 500Hz: 36.5Ω ± 15%; @ 1 kHz: 55.5Ω ± 15%
Environment		Passive NRR	31 – 33 dB, ANSI S12.6-2008, Method A
MIL STD	MIL-STD-810	Situational awareness	External Mics with adjustable volume levels
Operating temperature	-20 to +60 degrees C	Battery type	CR 123 3 Volt Lithium or powered by radio
Storage temperature	-33 to +71 degrees C	Battery life	80+ hours, 10-15 milliamps nominal

Heavy Duty Communication Units

HDC-HA - Helmet Attachment Headset



PTT on Shell (Optional)



PTT Inline (Optional)



Heavy Duty Helmet Attachment Headset

The Titan Helmet Attachment Headset can be fitted onto most safety helmets, providing an ideal solution for people working in hazardous environments.

The Helmet Attachment Headset provides crystal clear communication through a waterproof state of the art noise cancelling microphone.

The very comfortable earmuffs provide an excellent noise reduction of 26dB and comes in both ATEX and NON ATEX versions.

INDUSTRIES



OPTIONS



Nexus connector (optional)

Technical data

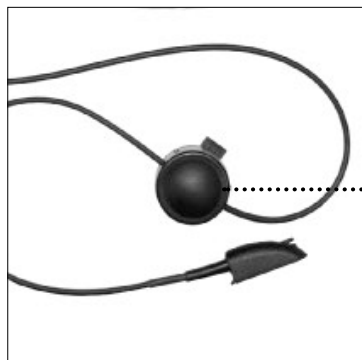
Microphone	Electret Bidirectional Noise cancelling	Environmental specifications	
Microphone protection rating	IP 67	Operating temperature	-25° C to +60° C
Sensitivity	15 dB - 1 KHz	Storage temperature	-40° C to +85° C
Filter	Internal RFI suppression	Mechanical specifications	
Speaker sound pressure level	88 db=/ \pm 3 db a 1 mw - 1 khz - 15 cm	Cable flex life	50,000 cycles
SNR Rating	26 dB	Cable pull strength	Axial 13 kgs
		PTT switch life	100,000 cycles

Heavy Duty Communication Units

HDC-HB - Headband Headset



PTT on Shell (Optional)



PTT Inline (Optional)



Heavy Duty Headband Headset

The Titan Headband Headset is an ideal communication solution for people working in high noise environments such as construction, manufacturing and aviation industry.

The Headband Headset provides crystal clear communication through a waterproof state of the art noise cancelling microphone.

The very comfortable earmuff provide a very high noise reduction of 29 dB and comes in both ATEX and NON-ATEX versions.

INDUSTRIES



OPTIONS



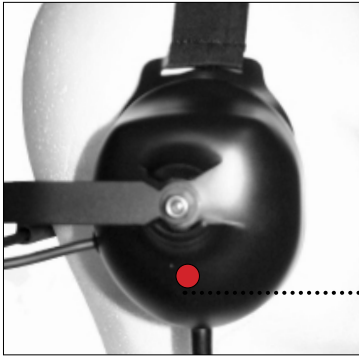
Nexus connector (optional)

Technical data

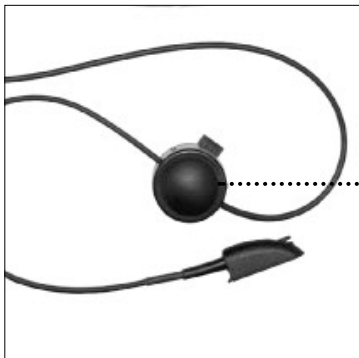
Microphone	Electret Bidirectional Noise cancelling	Environmental specifications	
Microphone protection rating	IP 67	Operating temperature	-25° C to +60° C
Sensitivity	15 dB - 1 KHz	Storage temperature	-40° C to +85° C
Filter	Internal RFI suppression	Mechanical specifications	
Speaker sound pressure level	88 db=/ \pm 3 db a 1 mw - 1 khz - 15 cm	Cable flex life	50,000 cycles
SNR Rating	29 dB	Cable pull strength	Axial 13 kgs
		PTT switch life	100,000 cycles

Heavy Duty Communication Units

HDC-NB - Neckband Headset



PTT on Shell (Optional)



PTT Inline (Optional)



Heavy Duty Neckband Headset

The Titan Heavy Duty Neckband Headset provides an ideal solution for people working in high noise environments such as construction, manufacturing and aviation industry.

It provides crystal clear communication through a waterproof state of the art noise cancelling microphone.

The very comfortable earmuff provide an excellent noise reduction of 23 dB and comes in both ATEX and NON-ATEX versions.

INDUSTRIES



OPTIONS



Nexus connector (optional)

Technical data

Microphone	Electret Bidirectional Noise cancelling	Environmental specifications	
Microphone protection rating	IP 67	Operating temperature	-25° C to +60° C
Sensitivity	15 dB - 1 KHz	Storage temperature	-40° C to +85° C
Filter	Internal RFI suppression	Mechanical specifications	
Speaker sound pressure level	88 db±/ - 3 db a 1 mw - 1 khz - 15 cm	Cable flex life	50,000 cycles
SNR Rating	23 dB	Cable pull strength	Axial 13 kgs
		PTT switch life	100,000 cycles

Heavy Duty Communication Units

MM13 - Heavy Duty Speaker Microphone



3.5mm accessory jack socket



The Titan Industry Speaker Microphone

The Titan MM13 is our smallest and most slick designed remote speaker microphone for industry and emergency services. The MM13 comes in an ATEX and NON-ATEX version depending on the users' needs.

The MM13 comes with a 3.5mm jack socket, which makes it compatible with most listen-only headsets. Depending on the radio, the MM13 can also be produced with an emergency button on top.

INDUSTRIES



OPTIONS



Emergency button (optional)

Technical data

Microphone	Omni directional	Environmental specifications	
Sensitivity	- 44dB +/- 3dB	Operating temperature	-25° C to +60° C
Speaker	45mm Ø Dynamic	Storage temperature	-40° C to +85° C
Output power	1W Max 2W	Mechanical specifications	
Output level	92dB +/- 3dB	Cable flex life	50,000 cycles
Frequency range	680Hz ~ 20KHz	Cable pull strength	Axial 13 kgs
		PTT switch life	100,000 cycles
		Protection rating	IP55

Heavy Duty Communication Units

MM15 - Heavy Duty Speaker Microphone



Clothing clip with 360 rotation



The Titan Heavy Duty Speaker Microphone

The Titan intrinsically safe heavy duty remote speaker microphone MM15 is the ideal solution for users needing to communicate without having to remove their two-way radio from their belt.

The MM15 comes with an emergency button and a 3.5mm jack socket for connecting accessories such as the EX-E1 acoustic tube earphone.

The MM15 comes in both an ATEX and NON-ATEX versions.

INDUSTRIES



OPTIONS



Emergency button (optional)

Technical data

Microphone	Omni directional	Environmental specifications	
Sensitivity	- 44dB +/- 3dB	Operating temperature	-25° C to +55° C
Speaker	45mm Ø Dynamic	Storage temperature	-40° C to +85° C
Output power	1W Max 2W	Mechanical specifications	
Output level	92dB +/- 3dB	Cable flex life	50,000 cycles
Frequency range	680Hz ~ 20KHz	Cable pull strength	Axial 13 kgs
		PTT switch life	100,000 cycles
		Protection rating	IP67

Heavy Duty Communication Units

E1 - Acoustic Tube Earphone



The Titan Listen-Only Acoustic Tube Earpiece

The E1 Acoustic Tube Earpiece is an absolute must-have communication product when discreet communication is required.

The E1 Acoustic Tube comes with a 3.5mm jack, which makes it compatible with all of our speaker microphones.

The E1 Acoustic Tube Earpiece can be supplied in ATEX or NON-ATEX versions. It also comes with a variety of ear tip options.

INDUSTRIES



OPTIONS



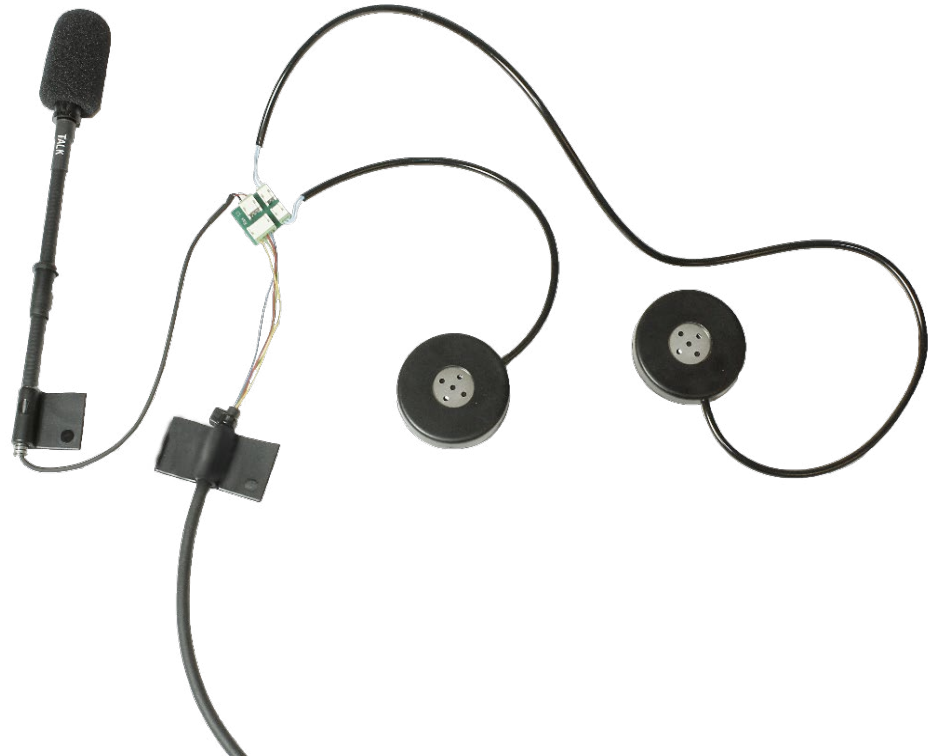
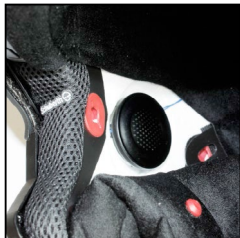
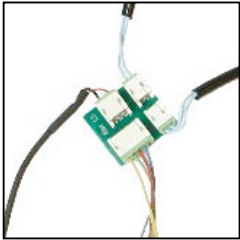
Various earpiece colors and options

Technical data

Acoustic Electret Speaker		Environmental specifications	
Sensitivity	-124 dB	Operating temperature	-25° C to +60° C
Response	100-3000 Hz	Storage temperature	-40° C to +85° C
Power	30 mVA	Mechanical specifications	
Connector	3.5mm jack (standard)	Cable flex life	50,000 cycles
		Cable pull strength	Axial 5 kgs

Motorcycle Solutions

MK - Motorcycle Helmet Audio Kits



Titan Helmet Audio Kits

The Titan helmet audio kits developed with use of high quality parts from speakers to our noise cancelling IP67 boom microphone.

Our modular helmet audio kits lets the customers choose between a variety of speakers to suit the specific need.

The helmet audio kits are compatible with most popular helmets and can be bought for own installation or we can perform the installation for you.

INDUSTRIES



COMPATIBLE HELMETS



SHOEI



NOLAN



Schuberth

Technical data

Microphone	Omni directional	Environmental specifications	
Sensitivity	- 44dB +/- 3dB	Operating temperature	-25° C to +55° C
Speaker	45mm Ø Dynamic	Storage temperature	-40° C to +85° C
Output power	1W Max 2W	Mechanical specifications	
Output level	92dB +/- 3dB	Cable flex life	50,000 cycles
Frequency range	680Hz ~ 20KHz	Cable pull strength	Axial 13 kgs
		PTT switch life	100,000 cycles
		Protection rating	IP67

Motorcycle Solutions

Wireless Handlebar PTT Communication System

Titan Portable Wireless Motorcycle System

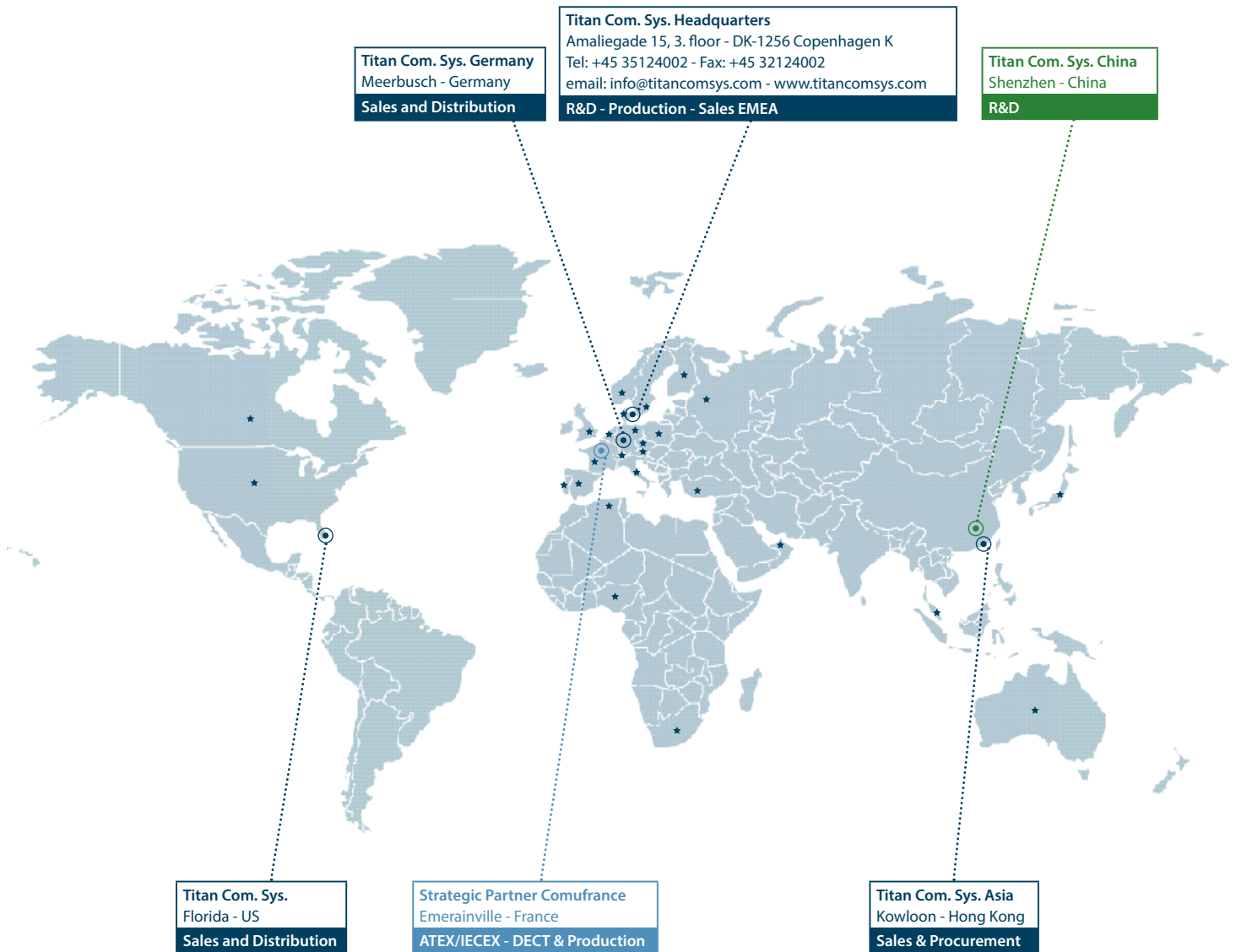
Our Wireless Push-To-Talk Motorcycle System for Portable radios is the optimum hands-free solution for professional users. With the combination of our MMW20 Remote Speaker Microphone, with an integrated wireless module, and our handlebar PTT connected to our wireless PTT box, the users can communicate easily when on their motorcycle or a foot.

The Handlebar PTT with the wireless PTT Box is fixed mounted to the Motorcycle's battery by wire ensuring instant transmission when the user is on his motorcycle and pressing the Handlebar PTT.

Pairing the Wireless PTT Box with the MMW20 Remote Speaker Microphone is easy and you only have to pair the devices once. Whenever you have been away from the bike, go back on it and the devices will pair automatically.



The Titan Team





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