

# TETRA TERMINALS

**Critical Communications Helping You To Respond & Achieve**

When you need mission-critical communications that never let you down, trust HMF. As one of the leading providers of TETRA digital radios in the world, Hytera know what it takes to ensure security and safety. Hytera's TETRA radios have been built with the end user in mind. They have all been developed according to the ETSI TETRA standard, so they remain compatible with network infrastructure and terminals from all compliant manufacturers.

**hmf-smart-solutions.com**

TETRA is the acronym for **Terrestrial Trunked Radio** and is a global standard developed by the European Telecommunications Standards Institute (ETSI) for digital trunked radio. TETRA is characterized by a high degree of frequency economy and voice quality.

## PT3 SERIES A STRONG FOUNDATION

For users working in noisy and harsh environments, the PT3 series offers easy-to-use, rugged radios that deliver outstanding audio quality. Ideal for users from the industry and utility sector.



### ULTRA-CLEAR AUDIO QUALITY

With water-porting technology, any water that gets into the speaker cavity is drained out easily. Coupled with this is a patented microphone aperture design, which prevents any wind noise interfering with transmissions.

### ACCESSOIRES RE-USE

The PT350 includes the common Sepura RAC interface and is compatible with RAC-based accessories. With this inherited design, customers can re-use their existing equipment. A complete series of additional accessories are also available including accessories for audio, carrying, power as well as antennas.

## PT5 SERIES INNOVATIVE ALLROUNDERS

This radio series is impressive, not only because of its durable and reliable design, but also thanks to its outstanding voice characteristics and its comprehensive TETRA functionality.

### COMPACT DESIGN & EASY TO USE

The radios of the PT5 series combine a compact housing with large buttons for exceptional ease of use. Their high-resolution, transreflective colour display is extremely easy to read even in bright sunlight.

### VERSATILE SERVICES

Apart from voice and data communication, additional functions are available: GPS, encryption, pre-recorded channel announcements etc.

Ideal for industry, utility as well as public safety and security environments.



# PT590 BEST IN CLASS

NEXT LEVEL TETRA PORTABLE RADIO

The new PT590 surely raises the bar of TETRA portable radios and is ready to become long lasting companion for today's and tomorrow's critical operations. It stands out due to excellent coverage, superior audio quality, productivity-boosting and advanced safety features.

This rugged TETRA radio also ensures incredible ease of use for workers in the field - thanks to its ergonomic design, intuitive display, and remote radio management capability. The PT590 is the first TETRA radio in class, that supports voice control and provides a one-fits-all USB Type-C port.



# PTC760 & PTC680

THE BEST OF TWO WORLDS - MULTI-MODE RADIOS

With the PTC760 and PTC680 multi-mode advanced radios from Hytera, HMF has two top class radios in its portfolio that combine LTE technology and TETRA functionality in just one device, enabling almost limitless communication.

These smart radios combine mission- and business-critical communication via narrow-band with the advantages of high-bit-rate application possibilities of an android-based smartphone with flexible data transmission via LTE, WiFi, WLAN, NFC or Bluetooth.

## THE BRIDGE BETWEEN NARROWBAND & BROADBAND

Hytera's TETRA-/LTE radios represent a revolution in the world of professional mobile radio communications.

The Multi-mode Advanced radios provide a convergent platform for the transmission of critical voice communications and broadband data services.

They combine mission-critical narrowband communication based on TETRA with LTE broadband data transmission.

TETRA is specifically designed for mission-critical voice applications, including group and emergency calls. LTE offers fast data services to support numerous applications.



PTC760



## Z1p

*Slim and lightweight, the Hytera Z1p TETRA handheld offers the perfect combination of ruggedness, versatility and refined design.*

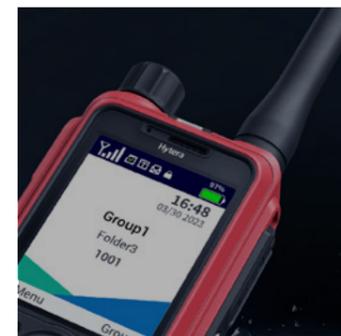
### ROBUST & LIGHTWEIGHT

With the IP67 rating it is dust and water proof, sustaining performance in harsh environments.

With its sleek design of only 23 mm thickness and its light weight, the Z1p slips unnoticed in to every jacket pocket.

GPS localization and man-down functionality is included in every Z1p radio.

Bluetooth is included to support covert audio accessories and to give you wireless convenience in choosing the right audio accessories for your needs.



## PT890 Ex ATEX

*Intrinsically safe on the highest level*

The PT890Ex intrinsically safe TETRA radio raises user safety and mission-critical communication under the most extreme conditions to a new level.

### ULTIMATE SAFETY

The PT890Ex intrinsically safe radio is certified to standards listed by IECEx/ ATEX. It has been developed to provide safe and reliable communication in hazardous environments by adopting the new materials, brand-new structural design and an innovative IS circuit.

With an optimized RF solution and a pioneering audio solution, it extends communication range and provides better audio.

Moreover, the PT890Ex has lone worker and dead man's functions as well as precise localisation performance, so it is also ideally prepared for unforeseen events.



## MT680 PLUS

*Highly flexible and mobile*

The MT680 Plus is the mobile radio for vehicles for TETRA users of all sectors. High reliability, simple operation and durability distinguish the MT680 Plus.

This TETRA mobile radio offers various operating modes, such as ETSI DMO Gateway and DMO Repeater mode, in order to increase the range of use for the connected TETRA users.

### IMMEDIATE & DIRECT COMMUNICATION

Thanks to the high 10 Watts transmit power you can reach your team even over large distances.

The MT680 Plus offers fast access to the TETRA mobile radio network and the roaming services.

### EXTREME QUALITY & FLEXIBLE INSTALLATION

Thanks to its high flexibility MT680 Plus can be practically installed anywhere.

You can install the operating head separately. A desktop cabinet is available so that the MT680 Plus can be used as a basic dispatcher, for example in a small office such as reception desk or a gatehouse.

---

# HIGHLIGHTS & FEATURES

All TETRA radios from Hytera are designed according to the TETRA standard and are characterized by versatile features, high robustness, and flexibility.

## ROBUST & RELIABLE

Radio equipment for professional users must be robust in order to remain ready for use in any situation. Dust and moisture are no risk for Hytera TETRA radios.

Considering harsh outdoor or industrial areas, all radios are in line with military standards and are perfectly prepared for use in severe environments.

## OPERATIONAL CONVENIENCE

Design is the difference - Hytera ensures that their TETRA radios offer user-friendly interfaces and that they are intuitive to pick up and go. All radios need minimal training.

Depending on usage scenarios, special attention was paid to ergonomics during development. Each user can expect a radio that fits his use case in terms of handling.

## HIGH-LEVEL OF SECURITY

The TETRA radio standard stands for security, especially for public safety users. Accordingly, Hytera's radios support all measures to secure communication.

This includes authentication, air interface encryption, end-to-end encryption and other measures to protect communication.

## VERSATILE OPERATING MODES

To provide versatile communication options, the TETRA radios support different modes of operation.

In addition to Direct Mode (DMO) and Trunked Radio Mode (TMO), our portfolio includes terminals that provide ETSI type 1A DMO repeater functionality. By using this operating mode, the respective radio can boost the area of operation for other TETRA users.

*Hytera's TETRA radios have been built with the end user in mind.*





[info@hmf-germany.com](mailto:info@hmf-germany.com)



[hmf-smart-solutions.com](http://hmf-smart-solutions.com)



+49 (0) 5042 998 0

**HMF Smart Solutions GmbH**

Fritz-Hahne-Str. 7, 31848 Bad Münder - Germany

HMF Smart Solutions GmbH reserves the right to modify the product design and the specifications. In case of a printing error, HMF Smart Solutions GmbH does not accept any liability. All specifications are subject to change without notice. Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations. **Hytera** are registered trademarks of Hytera Co. Ltd. ACCESSNET® and all derivatives are protected trademarks of HMF Smart Solutions GmbH. © 2023 HMF Smart Solutions GmbH. All rights reserved.