Hytera DMR Series Product Introduction

Hytera, complying with ETSI DMR open standard, brings you versatile DMR series products, including portable radio, mobile radio, repeater, multi-site IP connection, simulcast system and trunking system. Hytera responds to your demands for smoother communication and higher management efficiency with the most valuable solution of leading digital technologies, innovative user-oriented product design, and complete product portfolio.

DMR
DIGITAL MOBILE RADIO ASSOCIATION

www.hytera.cn

Digital Value Is Here

Today, the migration from analogue to digital is transforming the industry of professional mobile communications.

With edges that analog system has no way to achieve, digital technologies enable you to communicate smoothly, respond instantly, and operate efficiently with superior performance and versatile applications.

A complete and scalable digital communication solution is what you expect. Who can deliver the best one?

Hytera, a leading provider of PMR terminal and system, keeps turning mature and advanced technologies into solutions that you can rely on in challenging times. With insights of end user demands, Hytera has launched its innovative DMR portfolio, fully compliant to ETSI DMR open standard. Find all you need for your digitization and, thus, organizational efficiency improvement with Hytera DMR Series: portable radio, mobile radio, repeater, multi-site IP connection, simulcast system and trunking system*.

To achieve more with Hytera, digital value is right here for you.

* More products and solutions to be launched soon. For more information please visit our website or contact our local sales representatives.

DMR DIGITAL MOBILE RADIO ASSOCIATION

Digital Mobile Radio (DMR) is an open digital radio standard produced by European Telecommunication Standards Institute (ETSI). Being capable of voice, data and a range of other features and applications in conventional and trunking mode, DMR has received global recognitions*.
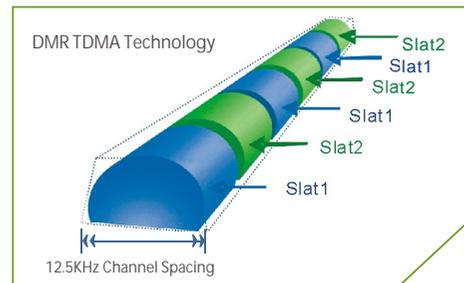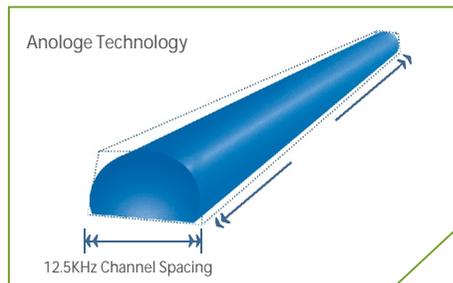
As a premium member of DMR Association, Hytera has mastered this technology. All our DMR products fully meet ETSI DMR requirements and feature innovative applications.

Advanced Digital Technology »

❶ Higher Spectrum Efficiency

Benefiting from the TDMA technology, our DMR products allow twice the channels based on the same bandwidth. This is a big help to relieve the stress of increasing shortage in spectrum resource.
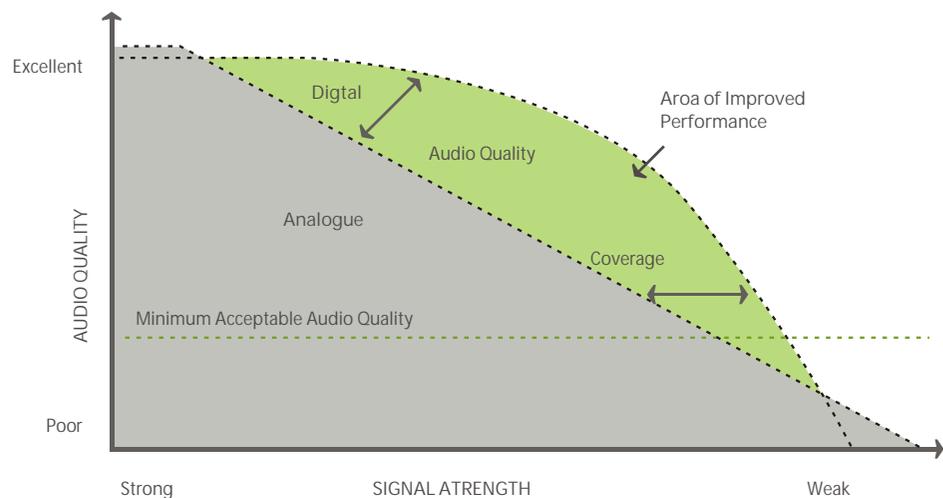
Anologe Technology

12.5KHz Channel Spacing

DMR TDMA Technology

Slat2
Slat1
Slat2
Slat1
Slat2
Slat1

12.5KHz Channel Spacing

❷ Compatible with Analog Mode

Our DMR products can operate in either analog or digital mode. It is compatible with the prevalent analog system, ensuring a smooth analog-to-digital transition.

❸ Superior Voice

With the combined application of narrowband codec and digital error-correction technologies, our DMR products can ensure you superior voice even in noisy environments or at the edge of the coverage area.

Excellent

Digtal

Audio Quality

Aroa of Improved Performance

Analogue

Coverage

AUDIO QUALITY

Minimum Acceptable Audio Quality

Poor

Strong   SIGNAL ATRENGTH   Weak

* For more information about DMR technology, please visit the official site of DMR Association: www.dmrassociation.org or visit our website for the DMR TechnicalWhitepaper.

❹ Affordable Networking

With TDMA technology, you just need a repeater, an antenna and a duplexer to build a system with two logic channels. Compared with FDMA, the two-slot TDMA provides remarkable bandwidth efficiency equivalent to that of 6.25kHz, minimizing your costs.

❺ Secure Communication

Communication on analog channels is eavesdropped on easily. But now with DMR technology, your communication can be secured by either signaling or ID (up to 16776415 IDs), and what's more, our DMR products are equipped with a multi-level privacy mechanism comprising analog scrambler*1, digital software and hardware encryption (256-bit encryption algorithm), offering enhanced protection for your communication.
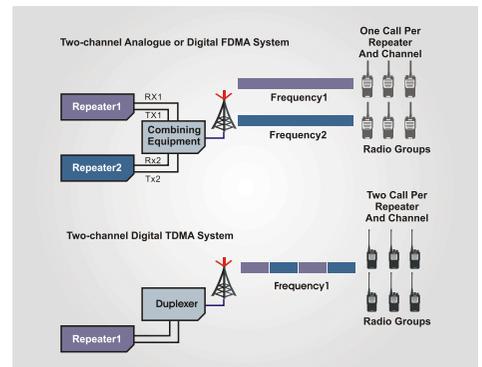
❻ Durable Battery

Compared with analog and FDMA technology, TDMA can enhance the battery's duty time by about 40%.

❼ Rich Data Services

In addition to conventional communication services, our DMR products are also known for rich data services such as Message, GPS and Telemetry.

❽ Versatile Voice Calls

The DMR intelligent signaling can realize various voice calls, including PTT ID, Private Call, Group Call, All Call, Emergency Call and Remote Monitor.

Affordable Networking

Pioneer Services & Functions ››

❶ Dual-slot Pseudo Trunk

With this Hytera innovated feature, the free slot can be dynamically allocated to a member who needs to communicate, enhancing frequency efficiency.

❷ Advanced Encryption

Our DMR products provide the 128-bit AES encryption with enhanced key management to secure your communication.

Advanced Encryption

❸ Multi-site IP Connection*2

The scattered repeaters, in despite of the frequency band, can be connected via IP to create a wide communication network.

Multi-site IP Connection

Trunking System

*1 indicates functions compatible with HYT analog two-way radios
*2 available in later version

Ergonomic Design ▸▸

❶ Large-size Color Display & Multilingual UI
The large-size TFT LCD display with multilingual UI delivers you favorable accessibility.

❷ User-friendly Menu
The menu gives you quick access to all services and functions. Our DMR products employ the same UI style so that you can learn to operate different models easily.

❸ Innovative Antenna
The radio antenna and GPS antenna are integrated to ensure more convenience and better performance.

❹ Distinctive Knob Design
Separated by the antenna, the two knobs of portable radio stand apart from each other. This design can reduce your misoperation with gloves or under dim light.
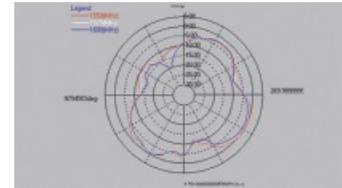
❺ Ergonomic Key
The smart body incorporates big keys for your comfort and convenience.

❻ 2-in-1 Knob
The mobile radio employs a 2-in-1 large knob for you to adjust the channel and volume quickly.

Large-size Color Display & User-friendly Menu

Innovative Antenna antenna are integrated to ensure better performance

Distinctive Knob Design

Ergonomic Key

Prominent Expansibility ▸▸

Further Development Port

❶ Further Development Port
Our DMR products reserve port for you or any third party to further develop desired functions such as GPS, Call Control and Telemetry.

❷ Upgradable Software
With our software upgrade pack, you can upgrade your products to enjoy the latest functions. Such pack is available for your dealer to download at our website*.

Optional Interface

❸ Optional Interface
A standard interface is reserved for you or any third party to further develop desired functions (such as Record, Bluetooth, RFID and Encryption Algorithm) with the optional board.

*contact our local sales representative for details.

FreedomLINK
www.freedomlink.biz
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