

EMPOWER YOUR OPERATION

HR1068 VHF

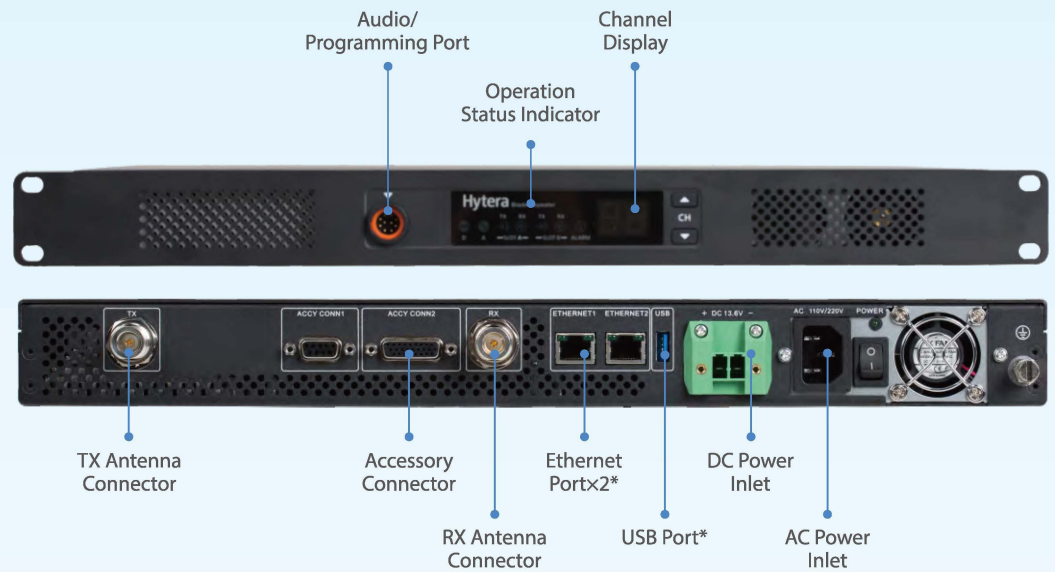
NEXT GENERATION DIGITAL REPEATER



EMPOWER YOUR OPERATION

Nowadays, different kinds of challenges come to us, whether in public safety, public utilities or commercial industry, we all have a lot of pressure to handle our day to day tasks. For better safety and efficiency throughout your organization, instant communication is one of the most important requirements. To ensure that your voice and data communication can reach everyone and everywhere, Hytera provides the HR 1068 VHF transceiver, which represents the next generation digital transceiver, to meet your demands for communication coverage and delivering reliable and high-performance radio network services.





Connectivity to more applications

* Two Ethernet ports and USB port supported in Enhanced version only.

SMOOTH MIGRATION WITH YOUR BUSINESS GROWING

Your communication needs are always growing together with the business expansion. As your business expands your communication needs grow too. As the organisation becomes larger with more employees you will need to upgrade your communication system to increase capacity and ensure continued working efficiency.

The HR1068 VHF transceiver can be compatible with most Hytera system types: Analog and Digital Conventional modes, XPT, Conventional Simulcast. Whether you want to migrate from analog to digital, or switch to a large capacity system, The HR1068 VHF transceiver can be unlocked by firmware upgrade and a chargeable license. Simple, Smooth, and Cost-effective.

GENERAL HIGHLIGHTS



Economical 1U Structure

The 1U height of the HR1068 VHF makes it compact, thus reducing space requirements for installation.



AC/DC Auto Switch

The HR1068 VHF supports both AC and DC input and AC/DC auto switching.



Wide Coverage

The communication range of HR1068 VHF is extended with enhanced Rx sensitivity. And the Ethernet port enables access to IP networks, which provides the capability for the HR1068 VHF to connect everyone and everywhere.



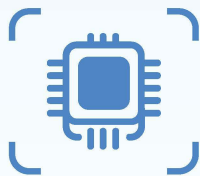
Analog & Digital Auto Switch

The HR1068 VHF can support mixed channel mode to detect the receiving signal, then automatically switch between analog and digital mode. This offers an easy way to migrate to digital from analog.

ENHANCED VERSION HIGHLIGHTS

The HR1068 VHF transceiver offers standard version and an enhanced version. Both versions support all the general features, while the Enhanced version adopts a built-in co-processor board to enable more advanced features. This offers more options for users to choose according to their actual needs.

**The standard version can be easily upgraded to enhanced version with an add-on co-processor module board.*



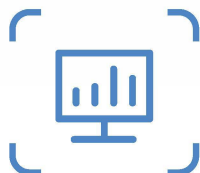
Outstanding Performance

The enhanced version of HR1068 VHF adopts an add-on quad-core 1.6GHz co-processor and 2G RAM for fast processing speed, which can process the services faster and integrate more applications.



High Integration

The enhanced version of HR1068 VHF is integrated with router and SIP gateway features. Less devices and simplified management. It offers a cost-effective solution for your network construction.



Convenient Management

In the enhanced version a web-based back end platform has been designed to simplify transceiver management. Configuration, upgrade and real-time diagnosis can all be completed through a web browser, which is ideal for remote management.



High Security

The enhanced version of HR1068 VHF also adopts SNMP3.0 technology to enhance communication security. All your data is fully protected during the communication.

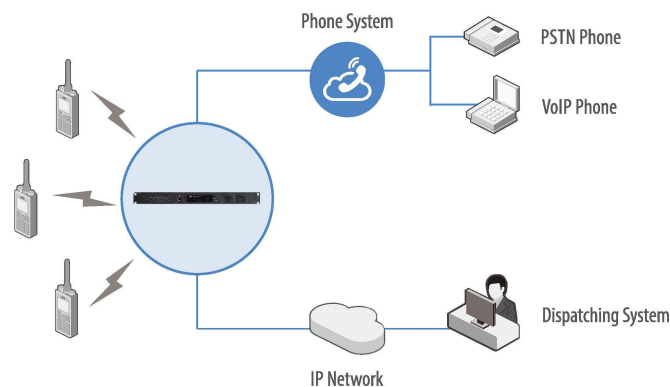
GENERAL SOLUTIONS

Hytera offers a wide range of solutions to enrich functionality for the HR1068 VHF transceiver. Dispatching system, a back-to-back solution for cross-band communication. Additionally the open API of HR1068 VHF can also be provided for third party development to realize customization requirements.



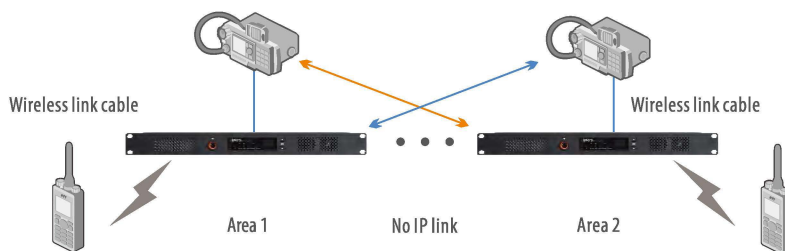
Flexible Interconnection

The HR1068 VHF transceiver is designed as an intelligent communication platform. It is flexible in its ability to connect with a variety of systems to provide seamless communication. Hytera can provide Inter-system Communication connections to SIP Phones and Dispatching systems.



Wireless Link Communication

The wireless link communication is applicable for forests, highway, and other areas where the wired network is difficult to be deployed. With the help of Hytera mobile radios MD785i or HM785 it is possible to establish wireless connections between two systems when there is no IP link.



ACCESSORIES

Standard



AC Power Cable
PWC03

Optional



External Duplexer



Back-to-Back Cable
PC49



Backup Cable
POA147



Programming Cable
PC37

SPECIFICATIONS

| General | | HR1068 VHF |
|-------------------------|------------------------------------------|------------|
| Frequency Range | VHF: 136-174MHz | |
| Channel Capacity | 64 | |
| Channel Spacing | 12.5KHz | |
| Operating Voltage | DC: 13.8V±15% AC: 100-240V | |
| Current Consumption(DC) | Standby: ≤0.9A Transmitting: ≤12A | |
| Current Consumption(AC) | Standby: ≤0.35A Transmitting: ≤1.2A | |
| Frequency Stability | ≤±0.5ppm | |
| Antenna Impedance | 50Ω | |
| Duty Cycle | 100% | |
| Dimensions(HxWxD) | 44×483×366 mm (1U Standard Rack 19 incs) | |
| Weight | 5.8kg | |
| Networking | Conventional Mode *Simulcast | |

*marked features are coming soon.

| Receiver | | |
|-----------------------------|--------------|---------------------------------------------------|
| Sensitivity | Analog | 0.18μV(12dB SINAD) 0.16μV(Typical)(12dB SINAD) |
| | Digital | 0.2μV/BER5% 0.18μV (Typical)/ BER5% |
| Selectivity | TIA-603 | 65dB@12.5kHz |
| | ETSI | 60dB@12.5kHz |
| Inter-Modulation | TIA-603 | 75dB@12.5kHz |
| | ETSI | 70dB@12.5kHz |
| Spurious Response Rejection | TIA-603 | 80dB@12.5kHz |
| | ETSI | 80dB@12.5kHz |
| Blocking | 90dB | |
| Hum and Noise | 40dB@12.5kHz | |
| Conducted Spurious Emission | ≤1GHz | ≤-57dBm |
| | >1GHz | ≤-47dBm |

| Transmitter | | | |
|---------------------------------|---------------------------------------------------------------|-------|--------|
| RF Power Output | 5-50W(adjustable) | | |
| FM Modulation | 11K0F3E @12.5kHz | | |
| 4FSK Digital Modulation | 12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW | | |
| Conducted/ Radiated Emission | Operating | ≤1GHz | -36dBm |
| | | >1GHz | -30dBm |
| | Standby | ≤1GHz | -57dBm |
| | | >1GHz | -47dBm |
| Modulation Limiting | ±2.5kHz @ 12.5kHz | | |
| FM Hum & Noise | 40dB @ 12.5kHz | | |
| Adjacent Channel Power | 60dB @ 12.5kHz | | |
| Audio Response | +1~ -3dB | | |
| Audio Distortion | ≤3% | | |
| Digital Vocoder Type | AMBE+2™ | | |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 | | |

| Environmental Specifications | |
|------------------------------|-------------|
| Operating Temperature | -30°C~+60°C |
| Storage Temperature | -40°C~+85°C |

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.



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