

EMPOWER YOUR OPERATION

HR1068

NEXTGENERATION DIGITAL REPEATER

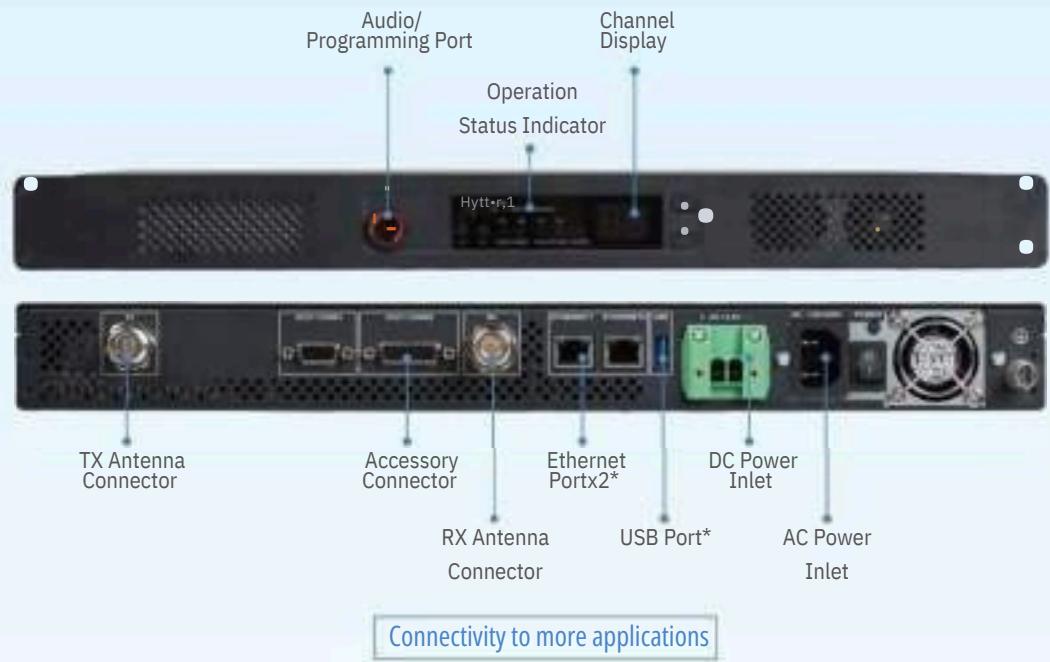
DMR



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 HR1068 series repeater, which represents the next generation digital repeater, to meet your demands for communication coverage and delivering reliable and high-performance radio network services.





*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 series repeaters can be compatible with most Hytera system types: Analog and Digital Conventional modes, XPT, Conventional Simulcast and DMRTier 3 DS-6211. Whether you want to migrate from analog to digital, or switch to a large capacity trunking system, the HR1068 series repeaters can be unlocked by firmware upgrade and a chargeable license. Simple, Smooth, and Cost-effective.



GENERAL HIGHLIGHTS



Economical 1 U Structure

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



Wide Coverage

The communication range of HRI 068 series is extended with enhanced Rx sensitivity. And the Ethernet port enables access to IP networks, which provides the capability for the HR1068 to connect everyone and everywhere.



AC/DC Auto Switch

The HRI 068 series supports both AC and DC input and AC/DC auto switching.



Analog & Digital Auto Switch

The HRI 068 series 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 HRI06 8series repeater 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 HRI 068 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 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 repeater 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 also adopts SNMP3.0 technology to enhance communication security. All your data is fully protected during the communication.

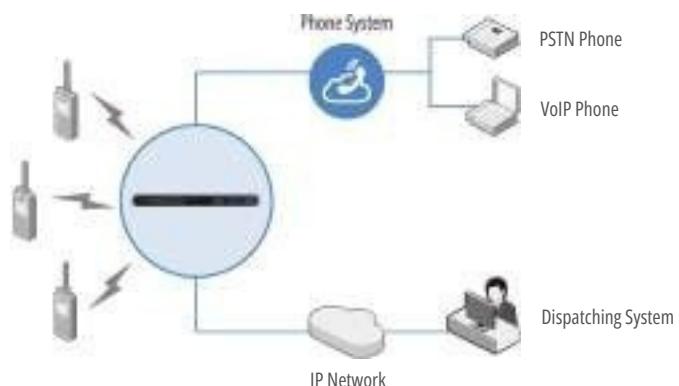
GENERAL SOLUTIONS

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



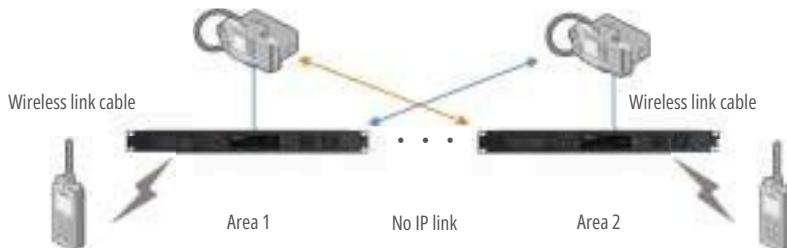
Flexible Interconnection

The HR1068 series repeater 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 MD788i or HM788 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			Transmitter		
Frequency Range	UHF: 400-470MHz VHF: 136-174MHz		RF Power Output	5-SOW(adjustable)	
Channel Capacity	64		FM Modulation	11 KOF3E @12.5kHz; 14KOF3E@ 20kHz; 16KOF3E@ 25kHz	
Channel Spacing	12.5kHz/ 20kHz/ 25kHz		4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW	
Operating Voltage	DC: 13.6V±15% AC: 100-240V		Conducted/ Radiated Emission	Operating s1GHz >1GHz -36dBm Standby s1GHz >1GHz -30dBm -57dBm -47dBm	
Current Consumption(DC)	Standby: 0.9A Transmitting: ::12A		Modulation Limiting	±2.5kHz@ 12.5kHz; ±4.0kHz@ 20kHz; ±5.0kHz @ 25k Hz	
Current Consumption(AC)	Standby: 0.35A Transmitting::51.2A ±0.5pm		FM Hum & Noise	40dB@ 12.5kHz; 43dB@ 20kHz	
Frequency Stability	±0.001%		Adjacent Channel Power	45dB@25kHz	
AntennalImpedance	50Ω		Audio Response	60dB@ 12.5kHz; 70dB@20/25kHz	
Duty Cycle	1s000n%		Audio Distortion	+1~3dB	
Dimensions(HxWxD)	44x483x366 mm		Digital Vocoder Type	53%	
Weight	5.8kg		Digital Protocol	AMBE+2™	
Networking	Conventional Mode *Digital Trunking Lite; *Simulcast *marked features are coming soon.			ETSI-TS102 361-1,-2,-3	
Receiver			Environmental Specifications		
Sensitivity	Analog	0.18µV(12dB SINAD) 0.16µV(Typical)(12dB SINAD)	Operating Temperature	-30°C~+60°C	
	Digital	0.18µV/BER5%	Storage Temperature	-40°C~+80°C	
Selectivity	TIA-603	65dB@12.5kHz / 75dB@20/25kHz 60dB@12.5kHz / 70dB@20/25kHz			
	ETSI				
Inter-Modulation	TIA-603	75dB@12.5/20/25kHz			
	ETSI	70dB@12.5/20/25kHz			
Spurious Response Rejection	TIA-603	80dB@12.5/20/25kHz			
	ETSI	80dB@12.5/20/25kHz			
Blocking		90dB			
HumanNoise		40dB@12.5kHz; 43dB@20kHz, 45dB@25kHz			
Conducted Spurious Emission		s1GHz ;,-s7dBm >1GHz ;,-47dBm			

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



Address: A-05-02, Block A, Tamarind Square, Persiaran Multimedia, Cyber 11, 63000 Cyberjaya, Selangor, Malaysia

Tel: +91 040 40078310

Website: www.hytera.com

Hytera retains right to change the product design and specification. Should any printing mistake occur, Hytera doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.

H,-,,, Hyter® areregisteredtrademarksofHyteraCommunications Corp., Ltd.
©2021 Hytera Communications Corp., Ltd. All Rights Reserved.