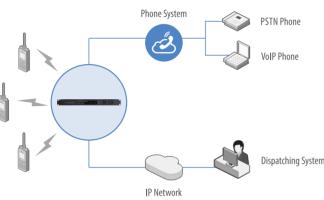
GENERAL SOLUTIONS

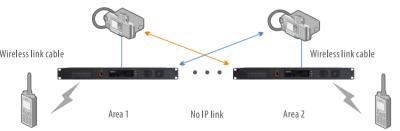
Hytera offers a wide range of solutions to enrich functionality for the HR106X series repeater. Dispatching system, a back-to-back solution for cross-band communication. Additionally the open API of HR106X can also be provided for third party development to realize customization requirements.



Phones and Dispatching systems.

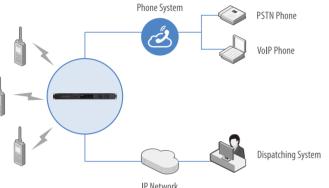






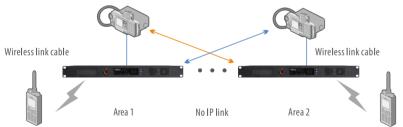
Flexible Interconnection

The HR106X 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



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.



SPECIFICATIONS

General			
Frequency Range		UHF: 400-470MHz VHF: 136-174MHz	
Channel Capacity		64	
Channel Spacing		12.5KHz/ 20KHz/ 25KHz	
Operating Voltage		DC: 13.6V±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(H×W×D)		44×483×366 mm	
Weight		5.8kg	
Networking		Conventional Mode *Digital Trunking Lite; *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 / 75dB@20/25kHz	
	ETSI	60dB@12.5kHz / 70dB@20/25kHz	
Inter-Modulation	TIA-603	75dB@12.5/20/25kHz	
	ETSI	70dB@12.5/20/25kHz	
Spurious	TIA-603	80dB@12.5/20/25kHz	
Response			

80dB@12.5/20/25kHz

≤-47dBm

≤1GHz

RF Power Output	5-50W(adjustab	5-50W(adjustable)		
FM Modulation		11K0F3E @12.5kHz; 14K0F3E @ 20kHz; 16K0F3E @ 25kHz		
4FSK Digital Modulation		12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW		
	Operating	≤1GHz	-36dBm	
Conducted/		>1GHz	-30dBm	
Radiated Emission	Standby	≤1GHz	-57dBm	
		>1GHz	-47dBm	
Modulation Limiting	_	±2.5kHz @ 12.5kHz; ±4.0kHz @ 20kHz; ±5.0kHz @ 25kHz		
FM Hum & Noise	40dB @ 12.5kHz; 45dB @ 25kHz	40dB @ 12.5kHz; 43dB @ 20kHz 45dB @ 25kHz		
Adjacent Channel Power	60dB @ 12.5kHz;	60dB @ 12.5kHz; 70dB @ 20/25kHz		
Audio Response	+1~-3dB	+1~-3dB		
Audio Distortion	≤3%	≤3%		
Digital Vocoder Type	AMBE+2 [™]	AMBE+2 TM		
Digital Protocol	ETSI-TS102 361-1	ETSI-TS102 361-1,-2,-3		
Environmental Specification	ons			
Operating Temperature	-30°C~+60°C	-30°C~+60°C		
Storage Temperature	-40°C~+85°C	-40°C~+85°C		

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

ACCESSORIES





AC Power Cable

PWC03











Backup Cable POA147



Programming Cable

PC37



Conducted Spurious Emission

Hytera Communications Corporation Limited Stock Code: 002583.SZ

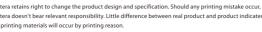
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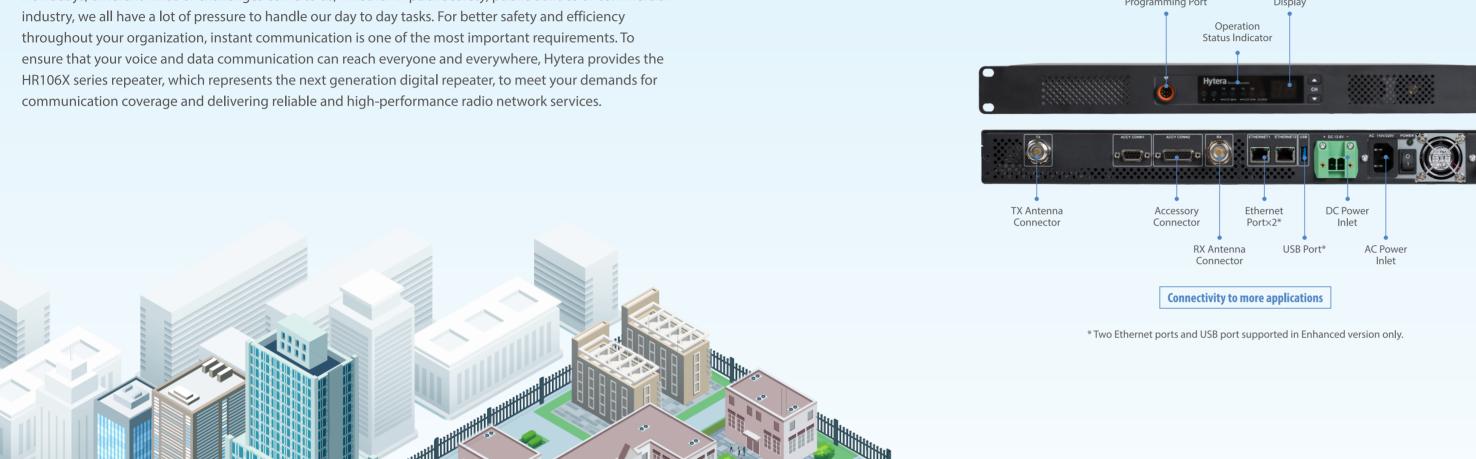


EMPOWER YOUR OPERATION HR106X NEXT GENERATION DIGITAL REPEATER DMR



EMPOWER YOUR OPERATION

Nowadays, different kinds of challenges come to us, whether in public safety, public utilities or commercial



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 HR106X series repeaters can be compatible with most Hytera system types: Analog and Digital Conventional modes, XPT, Conventional Simulcast and DMR Tier 3 DS-6211. Whether you want to migrate from analog to digital, or switch to a large capacity trunking system, the HR106X series repeaters 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 HR106X series makes it compact, thus reducing space requirements for installation.



AC/DC Auto Switch

The HR106X series supports both AC and DC input and AC/DC auto switching.



Wide Coverage

The communication range of HR106X series is extended with enhanced Rx sensitivity. And the Ethernet port enables access to IP networks, which provides the capability for the HR106X to connect everyone and everywhere.



Analog & Digital Auto Switch

The HR106X 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 HR106X series 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 HR106X adopts an add-on guad-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 HR106X 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.



The enhanced version of HR106X also adopts SNMP3.0 technology to enhance communication security. All your data is fully protected during the communication.