



The RTS DV-DMR066RPT Series Repeater provides professional users with full-featured communication services with clearer voice and richer standards. The DV-DMR066RPT's IP connectivity allows you to communicate freely wherever you are.

#### RF Clearer speech, more efficient performance

The DV-DMR066RPT's RF receiver employs a new generation of technology that enables higher sensitivity and noise suppression. It also cooperates with the digital error correction function of vocoder, allowing you to hear clear speech even in the most demanding noisy environments.

Thanks to its superior RF emitters, high-efficiency power amplifier modules, and ultra-large area aluminium heat sink design, the DV-DMR066RPT is capable of continuous uninterrupted transmission at 50W high power. At the same time, it passed the RTS accelerated life test smoothly to provide reliable communication with excellent quality.

#### MODE : Analogue, Digital

The DV-DMR066RPT supports digital and analogue communications for easy analog-to-digital conversion. DV-DMR066RPT has a superior signal processing technology, successfully achieved using TDMA communications at 12.5kHz FDMA communications and DMR standard 6.25kHz at dPMR / NXDN standard, a substantial increase spectrum efficiency. Professional users can realize more voice calls with less frequency resources.

#### Intelligent IP controller

The DV-DMR066RPT incorporates an intelligent IP controller. It uses a highly reliable and highly stable car-grade 4-core processor and military-grade Memory chips. It has efficient computing and faster processing speeds, enabling traditional wireless communications. Perfect seamless connection between the system and the current IP network helps more people feel smooth conversations at the same time

The DV-DMR066RPT supports the next-generation smart wireless communication system, which implements voice communication functions such as conventional IP interconnection and digital IP clustering, as well as functions such as positioning and scheduling. It supports wired networks, wireless bridges, and various data links such as 4G wireless and satellite, reducing design and construction difficulties, and flexibly matching the actual conditions of professional users.

#### Design : Modular Design, easier than ever

The DV-DMR066RPT adopts the modular design concept. It also has a built-in duplexer and professional power supply, which saves space and makes it easier to install on site.

for Reliable Quality

**RTS**<sup>TM</sup> 



# DV-DMR06RPT TDMA Repeater

## General

Frequency	66-88 MHz
Channel	600 Zone 32 (maximum 32 channels in one zone)
RF output Power	5-50W
Size (LWH)	420*483*132.5mm
Weight	15Kg
Input Voltage	AC 220V
Input Voltage	DC 13.6V±15%
Current (Standby)	<800mA
Current (TX)	<11A
Current (RX)	<1900mA
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Digital Vocoder	AMBE+2
RF Connection	Tx (N), Rx (N)
IP controller CPU	Freescale i.mx6Q 4Core CORTEX A9
RAM	1G DDR3
Flash Memory	8G
SD	Micro SD, Max 128G
Display	24bit RGB
USB	Mini USB2.0 (OTG)
Wired network	10/100/1000 Mbps Ethernet
Supported System	Motorola TIER II DMR RTS Normal digital/analog system

Specifications are subject to change without notice due to advancements in technology.

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## Transmitter

Power output	5-50W
RF Modulation	16KFSK@25kHz/11KFSK@25kHz
4FSK Digital Modulation	12.5kHz (data) 7KFSK@12.5kHz (data + voice) 7KFSK@6.25kHz (data) 4KFSK@6.25kHz (data + voice) 4KFSK@7.5kHz
TX Spurious	-36dBm (<1GHz) -30dBm (>1GHz)
Channel Space	6.25kHz / 12.5kHz / 25kHz
Auto Distortion	≤3%
Auto Response	+1~ -3dB
RF Hum & Noise	40dB@25kHz/45dB@25kHz
Digital FSK Error	<1%
Adjacent Channel Power	60dB@25kHz 70dB@25kHz
TX Spurious Emission	-36dBm (<1GHz) -30dBm (>1GHz)

## Receiver

Channel Space	6.25kHz / 12.5kHz / 25kHz
Sensitivity Analog mode	0.3μV(12dB SINAD) 0.22μV(typ.) (12dB SINAD) 0.4μV(20dB SINAD)
Sensitivity DMR	0.28μV(3%BER@12.5kHz) 0.3μV(3%BER@6.25kHz)
Adjacent Channel Selectivity Digital	62dB@6.25kHz 70dB@12.5kHz
Sensitivity	75dB@25kHz
Inter-modulation	70dB
Blocking	95dB
spurious response rejection	90dB
Audio power output at ≤ 5% distort	2.0W / 8Ω
Conducted Spurious Emission	<-57dBm

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