

40dBm N78 3300-3800MHz TDD 5G Digital High Power Repeater

Model No: DHPR-T35-40W90



Features:

- Digital Off the air, 5G RF Repeater supports TDD, Allows fast network deployment
- Designed to comply with ETSI TS 138 113 - V15.5.0 with 40dBm composite power
- TDD configuration supports NSA (Non-Standalone) and SA (Standalone)
- Linear amplification to effectively supported low intermodulation and spurious emission
- Built-in 5G Dynamic TDD Sync Detection Module, Automatic completion of 5G wireless network, cell search, wireless signaling processing
- Smart Automatic Level Control (ALC) to ensure continuously adjusted output power
- Auto Isolation check between service and donor antennas, IMOP Support (Isolation Measurement and Oscillation Protection)
- Smart mode to auto-adjust Gain according to the isolation and receiving signal level
- Simple installation, optional for IP67 enclosure, advanced Cavity filtering technology with sharper roll-off used to minimize interference
- USB port link to a notebook for local supervision or IP Based NMS (Network Management System) that can remotely manage the repeater status and send an alarm to the NMS.

Introduction

The EMTS Channel selective 5G (NR) Digital High Power Repeaters (5G DHPR) is an excellent solution to extended 5G network coverage; with the fast deployments of 5G networks, extending coverage to shadow areas becomes necessary; the next generation of RF repeaters are the ideal solution to bring wireless coverage for small to medium size buildings that need better 5G coverage. The 5G DHPR series supports larger bandwidth, faster speeds, and lower latency. Our commercial-grade indoor modular repeater supports 5G NR and is designed to meet ETSI standards; The 5G DHPR supports TDD network using advanced signal synchronization technology. The 5G DHPR adds capacity and boosts network performance to stay ahead of the fast-moving 5G deployment path competition. IMOP Support (Isolation Measurement and Oscillation Protection).



EMTS Telecom Services offers a comprehensive portfolio of enhanced coverage solutions for the Wireless Networks, Based on advanced technologies. EMTS proven, indoor and outdoor solutions solve a wide range of network challenges including interference and oscillation problems, challenging coverage holes, rapid response deployment and inadequate in-building coverage. Regardless of the technology or frequency, EMTS can provide customized coverage solutions that address any combination of unique and complex network needs for the Wireless Networks.

Specifications

Electrical Specifications		
System		5G NR TDD-3.5GHz
Frequency Range Other bandwidth and bands between 3300-3800 can be factory set	Uplink	3300 to 4100MHz
	Downlink	3400 to 4100MHz
Bandwidth		Any 100MHz (or 50MHz) from 3300-4100 MHz
Output Power	Uplink	23±2dBm
	Downlink	40±2dBm
Gain	Uplink	80±3dB
	Downlink	85±3dB
MGC (Step Attenuation)		0~31dB @ Step of 1dB
AGC		≥20dB
VSWR		≤1.5
Spurious Emission		9KHz~1GHz: ≤ -36dBm
		1GHz~12.75GHz: ≤ -30dBm
EVM (based on 256 QAM)		≤4.5%
Noise Figure		≤6dB
System Delay		≤1.5μs
Frequency stability		0.01ppm
I/O Impedance		50Ω
RF Connector		2XN-Female
Power Supply		Input: AC20V, 50/60Hz (optional +24 VDC or -48 VDC)
Power Consumption		≤100W



About EMTS Telecom Services Ltd.:

EMTS is a leading supplier of high-quality RF coverage solutions designed to maximize wireless network coverage in difficult RF environments and complex settings. The company specializes in extending RF radio coverage to rural areas, office buildings, subways, tunnels, and shadowed areas. The EMTS coverage solution supports all major mobile technologies and standards of wireless Networks.

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Note: All specifications subject to change without notice.

Mechanical Specifications		
Dimensions		447*357*171mm
Weight		≤16kg
Operating Temperature		-25 to +50 °C
Relative Humidity Range		≤ 95%(non-Condensing)
Application		Indoor or Outdoor (IP65)
Monitoring and Control		
Mounting		Wall Mounting
Local Control		Via USB Interface and Wi-Fi Hotspot
NMS Mode (Optional)		Cloud NMS via 4G Wireless Modem
5G SA/NSA		Support
LED Indication	Power	Normal: Green / Fail: No LED means power failure Normal: Green / Alarm: Red
	5G	
Remote monitoring and alarms		Via 4G modem



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