

33dBm N78 3300-4100MHz TDD 5G Digital Power Repeater

Model No: DPR-T35-33W80



Features:

- Digital Off the air, 5G RF Repeater supports TDD, Allows fast network deployment
- Designed to comply with ETSI TS 138 113 with 33dBm 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 remotely manages the repeater status and sends an alarm to the NMS.

Introduction

The EMTS 5G (NR) Power Repeaters (5GPR) 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 5GPR 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 5GPR supports TDD networks using advanced signal synchronization technology. The 5GPR 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	Uplink	3300-4100 MHz
	Downlink	3300-4100 MHz
Optional Frequency range		Any 100MHz from 3300 up to 4100MHz
Working Bandwidth		100MHz
Output Power	Uplink	30±2dBm
	Downlink	33±2dBm
Gain		83±3dB
Gain Adjustable Range		0 to 30dB/1dB Step
ALC/AGC Range		≥ 10dB
Gain Flatness		≤±3dBm
No damage Input Power		≤-20dBm
VSWR		≤1.5
EVM		≤ 3.5%
Frequency Stability		≤ ±0.01ppm
ACPR		≤ -45dBc
Noise Figure		≤ 6dB
Group Delay		≤ 1.5μs
Mechanical and environmental specifications		
I/O Impedance		50Ω
RF Connector		2X N-Female or 2X 4.3-10
Power Supply		Input: AC220V, 50/60Hz 2X4.3-10 Female - 100watts
447*357*171mm		370*295*152mm
≤17kg		≤12kg
Operating Temperature		-25 ~ +55 °C
Application		Indoor or Outdoor (IP65)
Relative Humidity Range		≤95% (non-Condensing)

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.



Cooling	Heat Sink
Mounting	Wall or Pole Mounting
MTBF	100.000 hours
Monitoring Capabilities	
LED Indicator	Power Supply, Running, Alarm
Local Control	USB Interface and Wi-Fi Hotspot
Remote Mode	Support SMS and Cloud Network Management System via 4G Wireless Modem
NMS Function	Real-time Alarm for Door Status, Temperature, Power Supply, VSWR Remote Control Turn On/Off, Increasing/Decreasing Output Power Real-time Status for Output/Input Power, UL/DL Gain, and All Status of Repeater.
Compliance Standards	
Standard	Fully comply with ETSI Standards: Safety: EN 60950 EMC : ETSI 301 489-50, ETSI 301 489-1, Radio: 5G: ETSI TS 138 106

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