



TURNING TECHNOLOGY INTO SOLUTIONS

# 10dBm LTE/WCDMA 1800MHz Band Selective Tunable Pico Repeater

Model No: PR-18-10W80-C



## Features:

- **10dBm Downlink composite power with High system gain**
- **Fully comply with the WCDMA/LTE standards**
- **IF Filter technology to support 0-30 MHz band**
- **Linear power amplification to effectively suppress inter-modulation and spurious emission**
- **Perfect for indoor deployments,**
- **Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously & noise reduction to the LTE or WCDMA BTS**
- **Unique color LEDs to indicate power supply and state and alarm**
- **Comprehensive GUI, very easy to use and install with USB input for setting.**
- **Oscillation preventing mechanism**

## Introduction

The EMTS Telecom Services Ltd. 1800MHz Pico Repeaters (PR) provides an excellent solution to the problem for poor indoor signal coverage. The PR utilized RF/IF technology that can automatically detect VSWR of Donor and Services Antennas in real time by adopting advanced technology. The PR frequency band can be tuned true USB port from 0 to 30MHz.

The Pico Repeater provides an affordable solution to solve the indoor signal coverage problems due to signal fading and attenuation caused by architecture obstacles. Its easy installation and maintenance can help carrier get fast return on investment. The repeater is working as a relay between the BTS and mobiles. It picks up the strongest signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Indoor Signal Distribution System to the weak/blind coverage area. The mobile signal is also amplified and retransmitted to the BTS via the opposite direction.



**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.

## Electrical Specification

	Uplink	Downlink
Frequency Range	1805-1835MHz	1710-1740MHz
Bandwidth	Tunable Band selective from 0 to 30 MHz using advanced IF/RF	
Maximum Gain	70±3dB	70±3dB
Frequency Error	≤±0.5ppm	
Manual Control Range	1~31dB @ step of 1dB	
AGC control range	≥20dB	
RF Output Power	10±2dB	10±2dB
Noise Figure	≤6dB	
Group Delay	≤ 5μs	
In band Flatness	+/- 2.5 dB max	
ACRR	≥20dB@5MHz; ≥20dB@10MHz	
EVM	≤12.5%	
PCDE	≤-35dB	
Spurious emission	Comply with 3GPP TS 25.106 V6.0.0	
VSWR	2:1 - The repeater included a VSWR protection system)	
Power Supply	Input AC100~ 240V, output DC 9V 30 watts	
Protection	The downlink output will be protected against open or short	
Size	265*318*68mm	
Weight	7Kg	
Operating temperature	-20° to +55°C	
RF connectors	N-Type	
Local Control Port	USB	
Indication LED	Power supply, Alarm, state	
Alarm Monitoring System	Alarm for uplink self-oscillation	
Standard	Fully comply with UMTS 3GPP and LTE standard: TS 125 143 - V13.0.0 (2016-01) and ETSI EN 301 908-11 V11.1.1 (2016-05)	

### 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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