

# High Performances GSM – WCDMA 900MHz Fiber Optic System



Model No: FOR-900-43W80

## Features:

- Supports all combinations of GSM 900MHz bands
- 33, 37, 40 or 43dBm composite power types, meets GSM system standards
- A reliable solution to extend and improve the coverage area of GSM systems, consists of Master and Slave modules
- Easy field installation and maintenance reduces rollout and operational costs
- Compensate inset loss of passive components and transmission losses of feeder cables
- Design to support input RF signals of -50 to -80dBm with no connection to GSM BTS.
- Compact Size and High Performance in waterproof enclosure suitable for outdoor and indoor installations.
- Remote unit design for wall mounting with Base unit design for 19 inch rack

## Introduction

The EMTS Telecom Services Ltd. Fiber Optic Repeater system is the best reliable solution to extend and improve the coverage area of GSM 900MHz telecommunication systems. The Fiber Optic Repeating system consists of two modules, Master and Slave. The Master module can be used directly coupled from BTS or can be connected to a RF Repeater receiving signals from the BTS, while the Slave module provides coverage in the service area. Fiber Optic Repeaters amplifies in directions, uplink and downlink a continuous bandwidth, factory tuned. Its rugged construction and easy field maintenance reduces operational costs and ensures a high MTBF. The EMTS Fiber optic repeater system is a cost-effective and practical solution for extending signal coverage in subways, tunnels and Indoor or outdoor distribution systems.



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.

## Technical Specifications:

Feature		Downlink	Uplink
Frequency range		925 - 960MHz	880 - 915MHz
Output power		33dBm	
Gain adjustment range		≥30dB	
Gain		80±3dB	75±3dB
Gain adjustment linearity	-10dB	±1dB	
	-20dB	±1dB	
	-30dB	±1.5dB	
(ALC)		P0≤2dB	
In-band ripple		≤3dB	
Inter-modulation attenuation (in-band working frequency)		≤-40 dBc/30KHz	≤-50 dBc/30KHz
Inter-modulation attenuation (out-band working frequency)	9kHz - 1GHz	≤-36dBm/30KHz	
	1GHz - 12.75GHz	≤-30dBm/30KHz	
Spurious emission		≤-22dBm/100KHz	
spurious emission (offset of working frequency 1MHz)	9kHz ~ 150kHz	≤-36dBm/1KHz	
	150kHz ~ 30MHz	≤-36dBm/10KHz	
	30MHz ~ 1GHz	≤-36dBm/100KHz	
	1GHz ~ 12.75GHz	≤-30dBm/1MHz	
	825MHz ~ 835MHz	≤-47dBm/100KHz	
	870MHz ~ 880MHz	≤-47dBm/100KHz	
	1.71GHz ~ 1.92GHz	≤-47dBm/100KHz	
	3.4GHz ~ 3.53GHz	≤-47dBm/100KHz	
Noise figure		≤5dB (downlink not demand)	
Propagation delay		≤5μs	
VSWR		≤1.4	
Frequency tolerance		≤±0.05ppm	

### Ordering information:

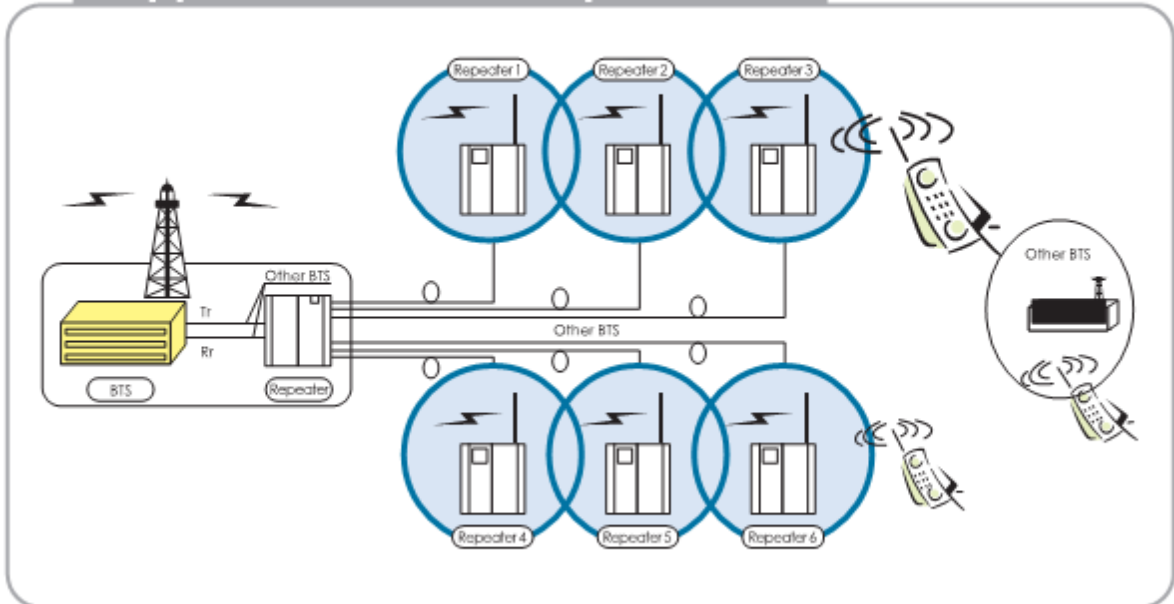
Model No: FOR-900-XW80 (X=Downlink Composite Power can be 33, 37, 40 or 43dBm)



### **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.

## Application Sketch Map



All specifications subject to change without notice



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