

High Power Tri-Band Cellular/AWS/PCS 850-1700-1900MHz Fiber Optic DAS System

Model No: FOR-851719-40W55




Features:

- **Advanced Tri Band system: 850, 1900 & 1700MHz (Cellular , PCS , AWS bands)**
- **Optional 4th band of 2600MHz**
- **Supports multi-band, multi-operator and multi-technologies applications**
- **Comply with ETSI, 3GPP and LTE standards**
- **40dBm Downlink power per band, designed for in building or outdoor deployments**
- **Easy field installation and maintenance, reduces rollout and operational costs**
- **Advance monitoring systems with the possibility to send alarms via fiber cable from master to slave or via GSM modem**
- **4 Remote units per master unit, designed to connect to POI (Point of Interconnection) to support multi operator deployments**
- **Compact Size in IP65 enclosure (Aluminum-alloy)**

Introduction

The EMTS Telecom Services Ltd. Multi-band, Multi -Operator Fiber Optic Repeater system is the perfect solution to extend and improve the in building or outdoor coverage area of 850/1900/1700MHz systems in the campus area, tunnels, hospitals, shopping malls and outdoor sites. The Fiber Optic Repeating system consists of Master and Remote (slave units) with up to four slaves at one master unit. The Master unit is designed to be connected to a POI (point of interconnection) to support multi operator deployments, while the Remote module provides coverage in the service area and connected to the master unit via dark fiber. Fiber Optic Repeaters amplify in directions, uplink and downlink a continuous bandwidth, factory tuned. Its rugged construction and easy field maintenance, reduce operational costs and ensures a high MTBF. The EMTS Fiber Optic Repeating 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

	GSM 850/ PCS 1900		AWS 1700	
	Downlink	Uplink	Downlink	Uplink
Frequency Range	869-894MHz 1930-1990MHz	824-849MHz 1850-1910MHz	2110-2155MHz	1710-1755MHz
Output Power (Max)	40±2.0Bm	-10±2.0dBm	40±2.0Bm	-10±2.0dBm
Max Gain	55±3dB		55±3dB	
Gain Modulation Range	30dB		30dB	
Gain Modulation Step	1dB		1dB	
Gain Modulation Error	for gain 0-20dB,Error≤1dB; for gain 21-30dB,Error≤1.5dB		for gain 0-20dB,Error≤1dB; for gain 21-30dB,Error≤1.5dB	
Noise Factor	/	≤5dB	/	≤5dB
Max NO Damage Input Power	10dBm	-10dBm	10dBm	-10dBm
Automatic Level Control (ALC)	output power variation < 2dB or be off when adding 10dB at max output power.		output power variation < 2dB or be off when adding 10dB at max output power.	
Pass Band Ripple	≤3dB		≤2dB/3.84 MHz	
VSWR	≤1.5		≤1.5	
Time Delay	≤5.0μs		≤5.0μs	
IMD	In-Band	≤-40dBc	/	
	Out-Band	9kHz~1GHz: ≤-36dBm/30kHz	/	
		1GHz~12.75GHz: ≤-30dBm/30kHz	/	
ACLR(PAR=8dB)	/		≤-45dBc@5MHz ≤-50dBc@10MHz	
Spurious Emissions	In-Band	≤-36dBm/3kHz or ≤-60dBc/3kHz	Meet 3GPP	
	Out-Band	9kHz~1GHz : ≤-36dBm		
		1GHz~12.75GHz : ≤-30dBm		
Frequency Stability	≤0.05ppm		≤0.01ppm	
PCDE	/		≤-35dB	
Evm(RMS)	/		12.5%	
RF Connection Mode	N/F,50Ω			
Type of Fiber Cable	Single Mode			
Fiber Optical Interface	FC/PC			

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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Fiber Optical Loss	≤8dB _o
Remote Monitoring & Control	GSM MODEM
Power Supply Mode	Master Unit : DC-48VDC Remote Unit : AC 220V
Power Consumption	Master Unit : ≤40W Remote Unit : ≤350W
Optical Wavelength	1310nm/1550nm
Number of Remote Units	4 Remote Units per 1 Master Unit
Operation Temperature	-25°C ~ +55°C
Casing class	Master Unit Unit:IP40 Remote Unit Unit:IP65
Machine Weight	Master Unit: ≤15kg Remote Unit: ≤35kg
Dimension	Master Unit:483mm×133mm×400mm (W*H*L) Remote Unit:490mm×410mm×187mm (W*H*L)
MTBF	≥100000h



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