

900-1800-2100-2600MHz Quad-Band Fiber Optic Repeater Master Unit



Model No: MU-9182126-4M

Features

- Supports wireless Services at 900/1800/2100/2600MHz FDD bands for multi-operator
- Support 2x2 MIMO, Tx/Rx control and alarm messages can be transmitted via one fiber optic cable, MIMO signals via another fiber optic cable
- Comply with GSM / WCDMA / LTE standards
- One Master Unit can support up to 4 RUs to maximize utilization of fiber optic cable(A star topology is supported between MU and RU)
- Ideal for expanding signal coverage or fill the signal blind area where wireless signals are weak or unavailable for Outdoor, Airports, Tunnels, Mining, Hotels, and Enterprises
- Suitable for large-scale Installations, Low Optical Transmission Loss
- Stable and improved signal transmission quality
- USB port provides a link to a notebook for local supervision or IP Based NMS(Network Management System) that can remotely supervise repeater's working status and download operational parameters to the repeater Via Ethernet

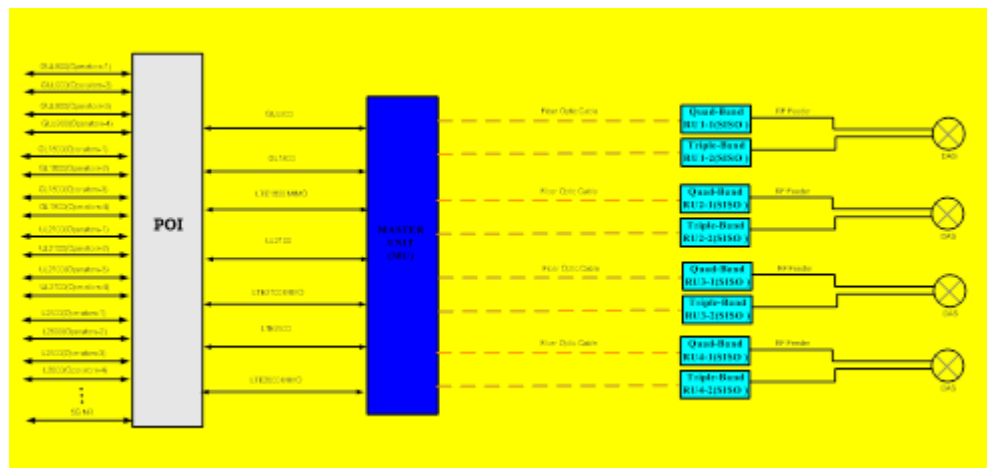


EMTS Telecom Services Ltd. offers a comprehensive portfolio of enhanced coverage solutions for the Wireless Networks, Based on advanced technologies. EMTS proven, indoor and outdoor solutions solve a wide range of network challenges including interference and oscillation problems, challenging coverage 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.

Introduction

The EMTS Telecom Services Ltd. Fiber Optic Repeater System consists of a master and remote unit that supports 900/1800/2100/2600MHz for GSM, WCDMA, and LTE. The master unit (MU) converts the RF signals to optical, and this can be connected to remote units (FRU) via Fiber Optical Cable. The remote unit converts the optical signals to the original RF signal. The EMTS Multi Band Fiber Optic Repeater system is designed to solve problems of weak mobile signal in the place that is far away from the Base Station (BS) and has a fiber optic cable network underground or can be deployed, Ideal for expanding signal coverage or fill the signal blind area where wireless signals are weak or unavailable for Outdoor, Airports, Tunnels, Mining, Hotels, and Enterprises, The system consists of two parts: Master Unit (MU) and Remote Unit (RU). The Master unit captures the BS signal via direct coupler closed to BS or via RF Repeater to pick up the signal from the air (optional). Either Master Unit can be configured and controlled through physical tethering or remotely using the simple, easy to use web interface.

Application Diagram



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.

All rights reserved - Specifications are subject to change without notice



Technical Specifications:

Items		Master Unit Specifications			
System		1*EGSM/UMTS900	2* LTE1800	2* LTE2100	2*LTE2600
Frequency Range	Uplink	1*880~915MHz	2*1710~1785MHz	2*1920~1980MHz	2*2500~2570MHz
	Downlink	1*925~960MHz	2*1805~1880MHz	2*2110~2170MHz	2*2620~2690MHz
Bandwidth		1*35MHz	2*75MHz	2*60MHz	2*70MHz
MU Extensible Support the RU Quantity		4			
Maximum Input Power (Non-Destructive)		5dBm			
Transmission Distance		≤ 10km			
Composite UL RF Output Power		-10±2dBm per Band			
Gain of MU		0±3dB per Band			
Manual Adjustable Attenuation		0~10dB			
Noise Figure@1RU Connection		≤ 5dB			
Spurious Emission		9kHz~1GHz: ≤ -36dBm			
		1GHz~12.75GHz: ≤ -30dBm			
System Delay		≤ 2μSec			
I/O Impedance		50Ω			
RF Connector		7*N-Female(4 Ports for SISO and 1 Port per Band,3 Ports for MIMO and 1 Port per Band)			
Optic Connector		8* FC/APC (4 Ports for SISO and 4 Ports for MIMO)			
Fiber Optical Type		Single Mode			
Optical Output Power		0±3dBm@1550nm			
Optical Receiver Sensitivity		≥-12dBm			
Operation Temperature Range		-10°C ~ + 45°C			
Relative Humidity Range		≤ 85%			
Application		Indoor (IP30)			
Power Supply		DC 48V			
Power Consumption		≤ 30W			

EMTS Telecom Services Ltd. 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.



Items	Master Unit Specifications
Dimensions	485*350*90mm
Weight	≤ 8kg
Mounting	Rack Mounting
LED Indicator	Power Supply, Running, Alarm
Local Control	Via USB Interface
NMS Mode	Cloud NMS via 4G Wireless Modem and RJ45 Port

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.

All rights reserved - Specifications are subject to change without notice

