

# TETRA 800 MHz High Performances In-Line Booster

Model No: EMTS-ILB-800-33W48

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## Features:

- **Compensate insertion loss of passive components and transmission losses of feeder cables.**
- **Used for or Indoor Distributions or Tunnel Coverage.**
- **Advance Bi Directional Technology.**
- **30 / 33 / 37dBm composite power types, meet TETRA system standards.**
- **Supports all combinations of TETRA 800 MHz bands**
- **Provide quick RF coverage service to your LMR Base-Station.**
- **Compact Size and high Performance in waterproof enclosure suitable for outdoor and indoor installations**
- **Metal cavity filter technology, allows wider receiving and transmitting separation, gain flatness, higher stability and lower noise figure**

## Introduction

The EMTS TETRA In Line Booster provides an excellent solution to the problem of insertion loss of passive components and transmission losses of feeder cables for Indoor Distributions or Tunnel Coverage.

Through the use of the ILB (In Line Booster) the TETRA operator can easily expand a base station's service area by compensation on feeder losses.

The ILB amplifies the signals on the coax cables or leaky cable by using Advanced Bi-Directional Technology. Easy installation, lightweight design and very friendly GUI make our ILB easy to use and install. The EMTS ILB is a cost-effective and practical solution for extending signal coverage inside building, shopping malls, airport and tunnels where the TETRA network having poor coverage.

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**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		Downlink	Uplink
Frequency Range (MHz)		851-869	806-824
Power output types	1W	30dBm	-20~0dBm
	2W	33dBm	-20~0dBm
	5W	37dBm	-20~0dBm
Gain		48±3dB	48±3dB
In-band ripple		≤3dB	
Gain adjustable range		≥30dB	
Gain adjustable step		1dB	
Noise figure		≤4dB	
VSWR		≤1.4	
Transmission delay		≤5us	
Spurious emission	In-band operating frequency	≤-36dBm/100KHz	
	Out-band operating frequency (offset operating frequency band edge over 2.5MHz)	9KHz-150KHz:-36dBm/1KHz	
		150KHz-30MHz:-36dBm/10KHz	
		30MHz-1GHz:-36dBm/100KHz	
		1GHz-12.75GHz:-30dBm/1MHz	
		890MHz-915MHz:-47dBm/100KHz	
		935MHz-960MHz:-47dBm/100KHz	
		1.8GHz-1.92GHz:-47dBm/100KHz	
3.4GHz-3.53GHz:-47dBm/100KHz			
Inter-modulation attenuation	In-band operating frequency	≤-15dBm/30KHz	
	Out-band operating frequency (offset operating frequency band edge over 2.5MHz)	9KHz-1GHz(include 1GHz):-36dBm/30KHz	
		1GHz-12.75GHz:-30dBm/30KHz	

**Ordering information:**

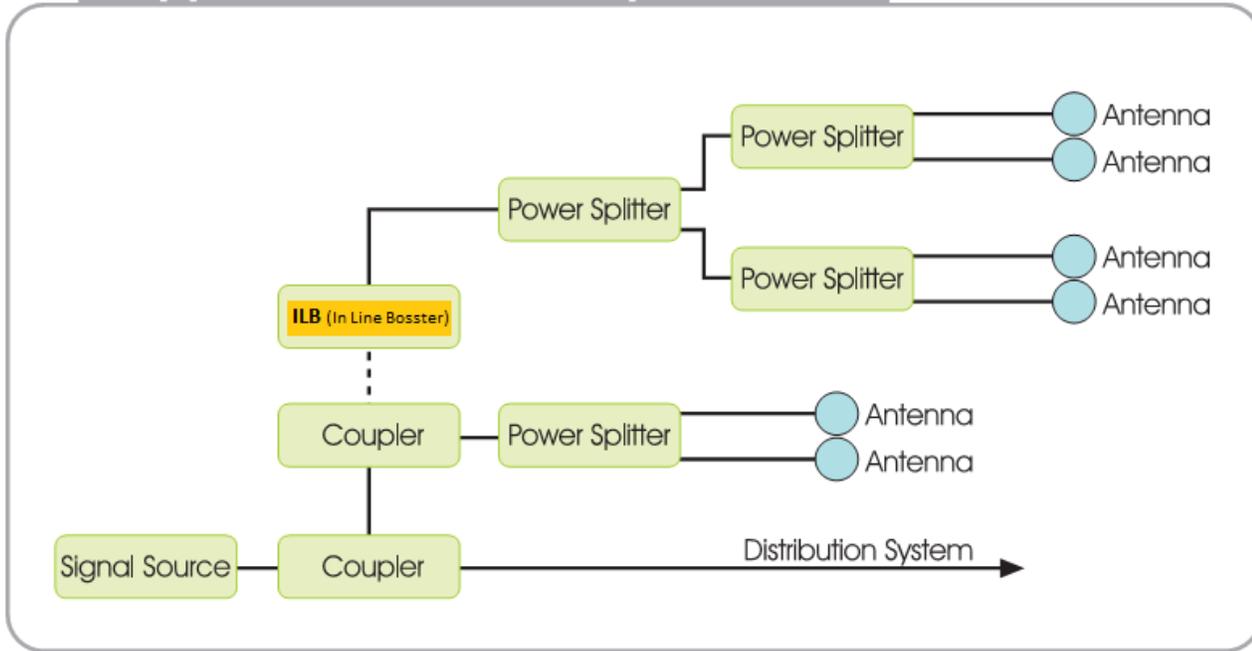
Model No: EMTS-ILB-800-AW48-X-Y  
 A=Downlink Composite Power can be 30 or 33 or 37dBm  
 X= Uplink band  
 Y= Downlink band

**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



**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.