

High-Quality LTE 1800MHz Band 3 In-Line Amplifier

Model No: ILB-1800-30W40



Features:

- Fully comply with GSM-LTE standard supports the 1800 MHz band, fully comply with CE, ETSI, and 3GPP standards
- In-Line booster configuration, amplify both uplink and downlink path
- Low interference to BTS by adopting a linear amplifier with high gain and low noise
- Smart Automatic Level Control (ALC) ensures output level is stable and adjustable continuously
- Low power consumption with an optional sleeping mode (saving power)
- Linear power amplification with an extremely low EVM
- aluminum-alloy casing with IP65 protection has high resistance to dust, water, and corrosion
- An opportunity for remote monitoring and alarm using a 4G internal modem

Introduction

The EMTS Telecom Services LTE Band Selective in Line Booster (**ILB**) is integral to the LTE network deployment. It extends the coverage by receiving processes and amplifying the RF signal. The single-band LTE-1800 MHz **ILB** s 30dBm booster provides an affordable solution to solve indoor signal coverage problems in LTE 1800MHz systems. Due to signal fading and attenuation caused by architecture obstacles, the signal strength is weak; our ILB, with its easy installation & maintenance, can help carriers get a faster return. The ILB works as a relay between the BTS or pickup repeater and mobiles. It picks up the signal from BTS or the repeater via coaxial connections, linearly amplifies the signal, and then retransmits it via the Indoor Signal Distribution System to the weak/blind coverage area. The mobile signal is amplified and retransmitted to the BTS in the opposite direction. It provides two versions of a full band or a band selective fix band (factory set) type.



EMTS Telecom offers a comprehensive portfolio of enhanced coverage solutions for 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 Wireless Networks.

Technical Specifications

System		DCS/LTE1800
Working Frequency	Uplink	1710-1785MHz
	Downlink	1805-1880MHz
Maximum Output Power	Uplink	-10±2dBm
	Downlink	30±2dBm
Maximum Gain	Maximum Gain	40±3dB
	Maximum Gain	40±3dB
Gain Adjustment Range		0~25dB @ Step of 1dB
AGC		≥10dB
Max Input Power (Non-Destructive)	Uplink	-10dBm
	Downlink	10dBm
Spurious Emission		9kHz~1GHz:≤-36dBm
		1GHz~12.75GHz:≤-30dBm
EVM		≤8%
VSWR		≤1.5
Noise Figure		≤ 6dB
System Delay		≤ 1.5μSec
I/O Impedance		50Ω
RF Connector		2XN-Female
Temperature Range		-25°C ~ + 55°C
Relative Humidity Range		0 ~ 95% (Non Condensing)
Application		Indoor and Outdoor (IP65)
Installation Type		Wall Installation
Power Supply		24VDC
Dimensions		370*295*170 mm
Weight		≤15kg
Local Control		Via UBS Interface and WiFi Hotspot

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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