

4.8GHz In-line Amplifier with 4X4 MIMO

Model: TSL30A-3

The 4.8GHz In-Line Amplifier is designed to provide a more cost-effective solution than adding a new Base Transceiver Station (BTS) to extend signal coverage and to improve communication quality in 4.8GHz system. And its easy installation and maintenance can help carrier get fast return.

The Trunk Amplifier is working as a relay between the BTS/Repeater and distributed antennas. It receives the low-power signal from Trunk line of indoor distribution system via the coupler, linearly amplifies the signal and then retransmits it via the cables to the antenna distribution system. And the mobile signal is also amplified and retransmitted to the BTS via the opposite direction.



Features

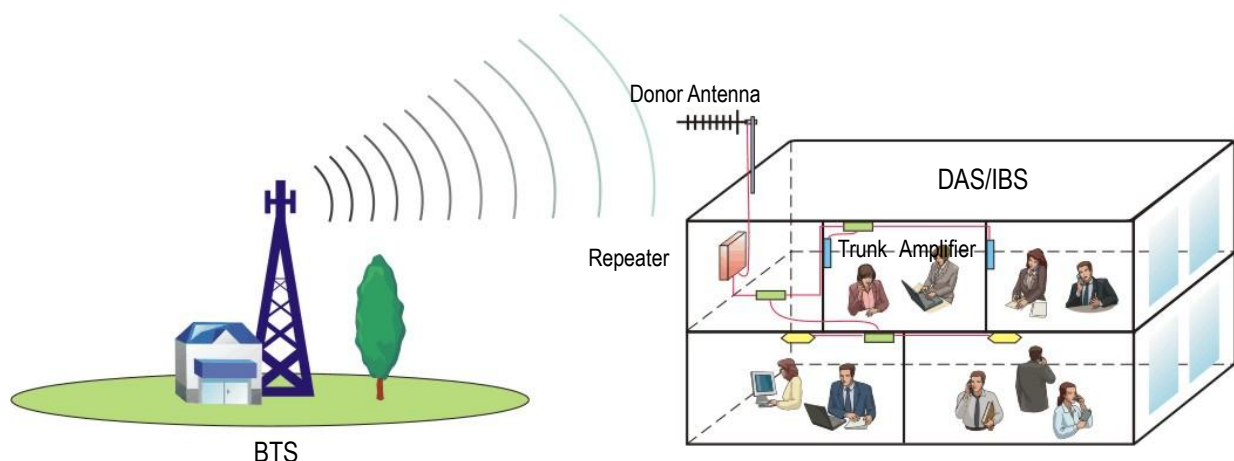
- Low interference to BTS by adopting linear amplifier with high gain and low noise
- Built-in TDD-LTE baseband synchronization module, automatic completion of TDD-LTE wireless network cell search and wireless signaling processing
- USB port provides a link to a notebook for local supervision or IP Based NMS (Network Management System) that can remotely supervise Repeater's working status and download operational parameters to the BDA Via Ethernet or LAN

Applications

To expand signal coverage or fill signal blind area where signal is weak or unavailable.

Indoor: Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...

Application Diagram



Technical Specifications

Items		Specifications
System		TDD-LTE4800/5G-NR with 4X4 MIMO
Working Frequency	Uplink	4800~4900MHz
	Downlink	4800~4900MHz
Output Power	Uplink	-40±2dBm
	Downlink	30±2dBm
Gain	Uplink	10±3dB
	Downlink	10±3dB
Gain Adjustment Range		0~10 dB @ Step of 1 dB
ALC		Output Power Variation<2db when Adding 10dB at Max Output Power
Max Input Power (Non-Destructive)	Uplink	-10dBm
	Downlink	25dBm
VSWR		≤1.5
Spurious Emission		9kHz~1GHz:≤-36dBm 1GHz~12.75GHz:≤-30dBm
EVM		≤ 4.5%
Noise Figure		≤ 5dB(Uplink Only)
System Delay		≤ 1.5μSec
I/O Impedance		50Ω
RF Connector		4XN-Female and 4XSMA Female
Temperature Range		-25°C ~ + 55°C
Relative Humidity Range		0 ~ 95% (Non Condensing)
Power Supply		AC100-240V
Application		Indoor and Outdoor (IP65)
Dimensions		318mm X 265mm X 113mm
Weight		≤11kg
Local Control		Via USB Interface and WiFi Hotspot