

## 3.8GHz In-line Amplifier with 4X4 MIMO

**Model: TSSL43A-1**

The 3.8GHz 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 3.8GHz 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

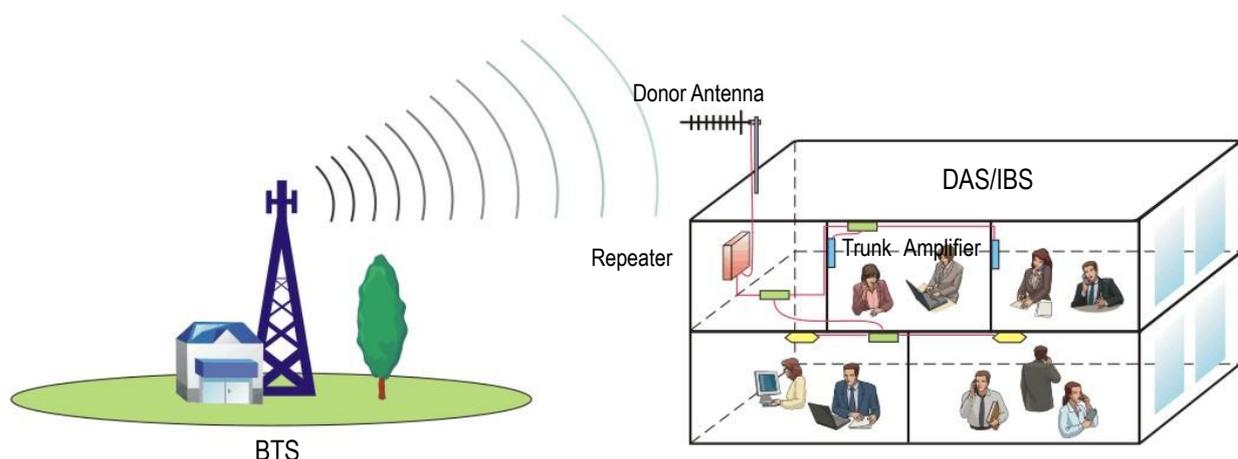
- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion
- Low interference to BTS by adopting linear amplifier with high gain and low noise
- Built-in TDD-LTE baseband synchronization module, automatic completion of TDD-LTE wireless network cell search and wireless 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
<b>System</b>		TDD-LTE3800 with 4X4 MIMO
<b>Working Frequency</b>	<b>Uplink</b>	3700~3800MHz
	<b>Downlink</b>	3700~3800MHz
<b>Output Power</b>	<b>Uplink</b>	-40±2dBm
	<b>Downlink</b>	43±2dBm
<b>Gain</b>	<b>Uplink</b>	25±3dB
	<b>Downlink</b>	25±3dB
<b>Gain Adjustment Range</b>		0~20 dB @ Step of 1 dB
<b>ALC</b>		Output Power Variation<2db when Adding 10dB at Max Output Power
<b>Max Input Power (Non-Destructive)</b>	<b>Uplink</b>	-10dBm
	<b>Downlink</b>	25dBm
<b>VSWR</b>		≤1.5
<b>Spurious Emission</b>		9kHz~1GHz:≤-36dBm 1GHz~12.75GHz:≤-30dBm
<b>EVM</b>		≤ 4.5%
<b>Noise Figure</b>		≤ 5dB(Uplink Only)
<b>System Delay</b>		≤ 1.5μSec
<b>I/O Impedance</b>		50Ω
<b>RF Connector</b>		4XN-Female and 4XSMA Female
<b>Temperature Range</b>		-25°C ~ + 55°C
<b>Relative Humidity Range</b>		0 ~ 95% (Non Condensing)
<b>Power Supply</b>		AC220V
<b>Application</b>		Indoor and Outdoor (IP65)
<b>Dimensions</b>		500mm X 440mm X 187mm
<b>Weight</b>		≤35kg
<b>Local Control</b>		Via USB Interface and WiFi Hotspot