

Specification

Integrated RF BDA

TS-9200	
Frequency Range	VHF,350-470MHz,800MHz
Protection	IP55
Weight	35kg
Dimension (Lx W xH)	705x400x202mm
Power Supply	AC180~260V (45~55Hz) /DC-40~55V
Connector Type	N-connector (female)
Monitoring Mode	GSM、Ethernet(SNMP)、RS232
Environment Humidity	≤ 95% RH
Operating Temperature	-30°C ~+60°C
Input\Output Impedance	50Ω
Noise Factor	≤5dB
Signal Delay	≤ 35us (Channel-selective) ≤ 5us (Band-selective)
Power Consumption	<300W

Downlink		Uplink	
IP3	62dBm	IP3	62dBm
Gain	90dB	Gain	90dB
Input Level	-80 ~ -45dBm	Input Level	-105 ~ -60dBm
Output Power	40dBm (10W)	Output Power	33dBm (2W)

Fiber optical BDA (Coupling by air)

Frequency Range	VHF: 350-470MHz,800MHz
Protection	IP55
Weight	25kg/25kg
Dimension (Lx W xH)	460x400x202mm / 460x400x202mm
Power Supply	AC180~260V (45~55Hz) /DC-40~55V
Connector Type	N-connector (female)
Monitoring Mode	GSM、Ethernet(SNMP)、RS232
Environment Humidity	≤ 95% RH
Operating Temperature	-30°C ~+60°C
Input\Output Impedance	50Ω
Noise Factor	≤5dB
Signal Delay	≤ 35us (Channel-selective) ≤ 5us (Band-selective)
Power Consumption	<100W / <100W

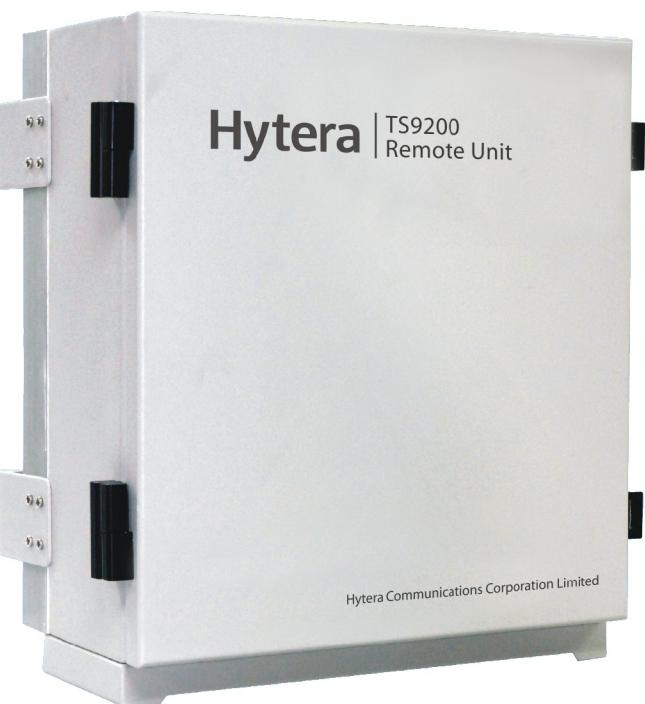
Downlink		Uplink	
IP3	62dBm	IP3	62dBm
Gain	110dB	Gain	110dB
Input Level	-80 ~ -45dBm	Input Level	-110 ~ -70dBm
Output Power	37dBm (5W)	Output Power	30dBm (1W)

If you want to know the other BDA type specification, please contact the local dealers.



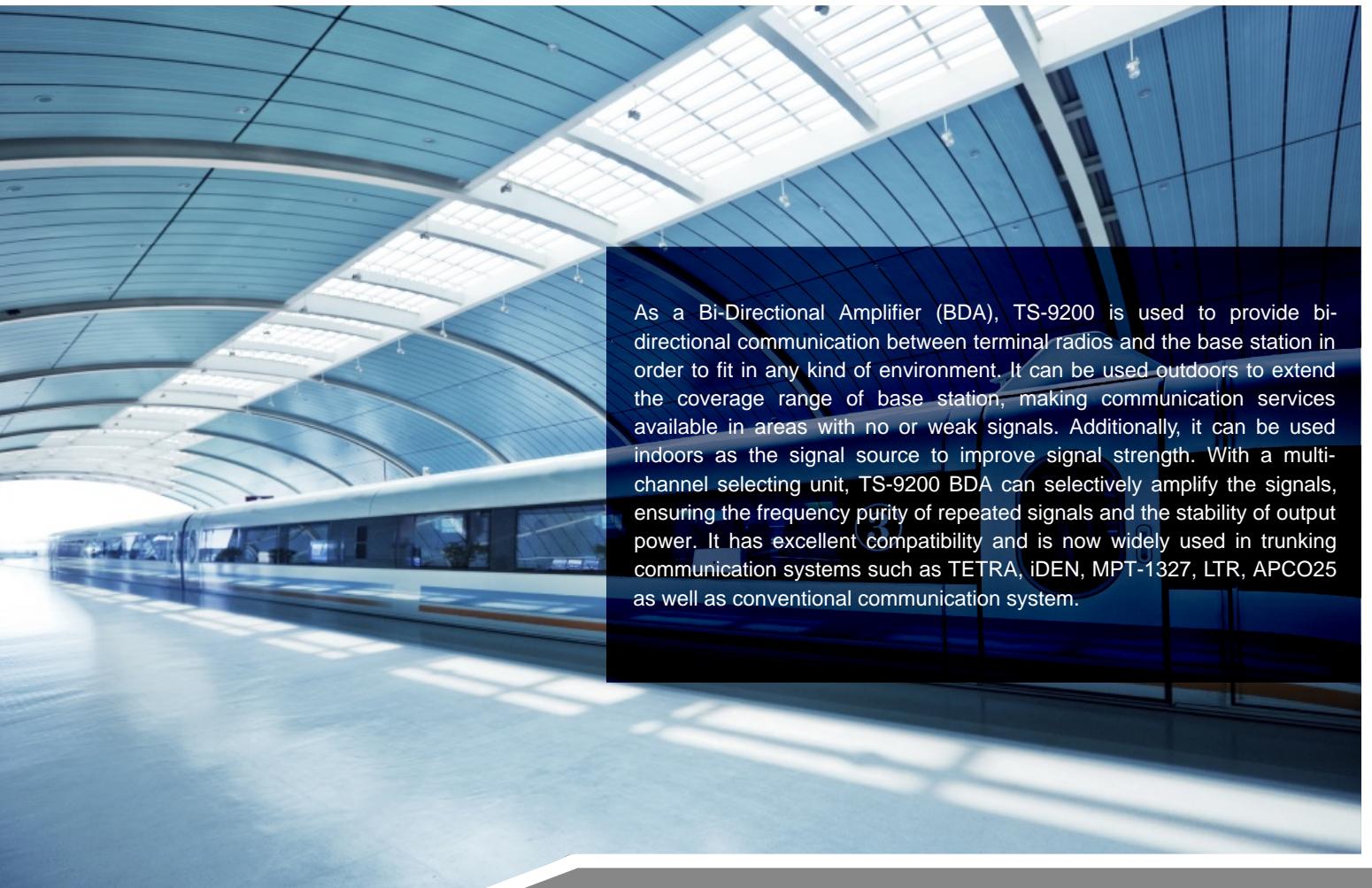
TS-9200

Bi-Directional Amplifier



BDA Type:

- Integrated RF BDA
- Fiber Optical BDA (Coupling by air)
- Fiber Optical BDA (Coupling directly)

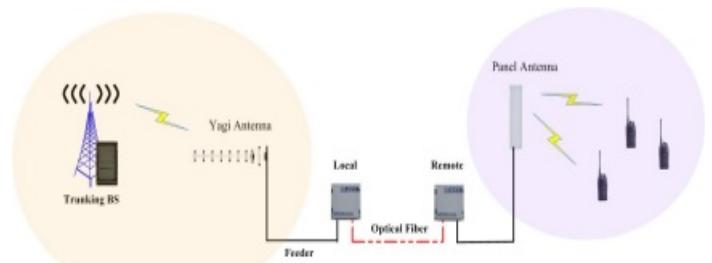


TS-9200

Bi-Directional Amplifier

Product Highlights

- With modularized design, easy for maintenance;
- Software remote monitoring (GSM、Ethernet(SNMP)、serial port), easy for maintenance and management.
- SDR (Software Definition Radio) Technology, filtering irrelative and ensuring stable output power & clean spectrum output.
- Function of Channel Switch. With this functions, the channel will automatically be shut down if there is no call in the coverage, which can strongly reduce the impact of base stations.
- Dustproof, moistureproof & waterproof, with low requirements on installation environment;
- With high-linearity power amplifier and high-rejection duplexer, capable of rejecting intermodulation and spurious signals;



Fiber optical BDA(Coupling by air)

Application Examples

●Coverage Solution for Tunnels

Signals are strongly shielded in long and narrow tunnels due to barriers such as mountains. As a result, there is almost no signal except the entrance and exit. BDA would throw this problem away.

●Coverage Solution for Roads and Railways

Install BDAs between base stations of trunking system along highways, railways or rivers, and users will enjoy the following benefits: coverage range extension of trunking system; the reduction of base station number and frequency resource occupation; significant cut of system construction cost and winning of a cost-effective zonal coverage solution with high performance.

●Coverage Solution for Indoor Areas

Most trunking systems adopt the large coverage system. As a result, the signals are weak when getting to the indoor area due to the attenuation such as space loss and penetration loss. This is why signal blind areas or poor communication quality occur in the lower floors, basements, Mine and elevators of high-rise buildings. In these cases, BDA is the best solution thanks to its ability to improve signal strength and ensure communication quality.

●Coverage Solution for Outskirts Areas

In suburbs and remote town areas, BDA is the best coverage solution, not only for its affordability and easy installation, but also for its functions (equal to a small base station).

●Coverage Solution for Congested Residential Areas

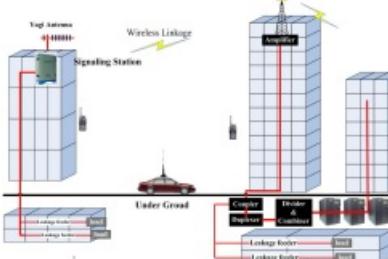
In congested residential areas, buildings vary in height and the space size between two buildings is small with complex electromagnetic environment. This may cause the signal to attenuate quickly. Therefore, low coverage rate and poor communication quality result. Luckily, these problems can be eliminated by using BDAs.

Typical Solution Of BDA

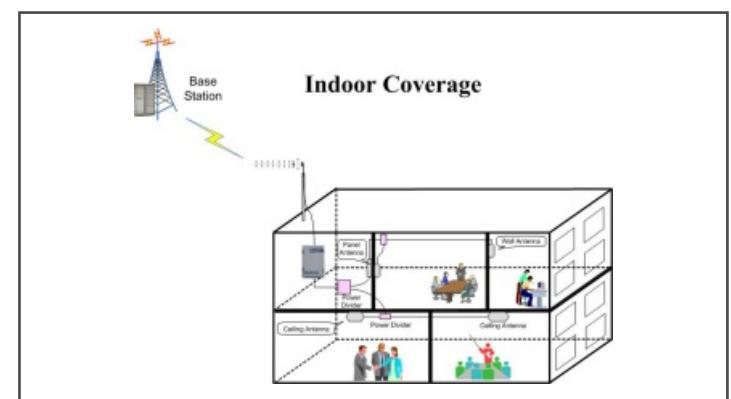
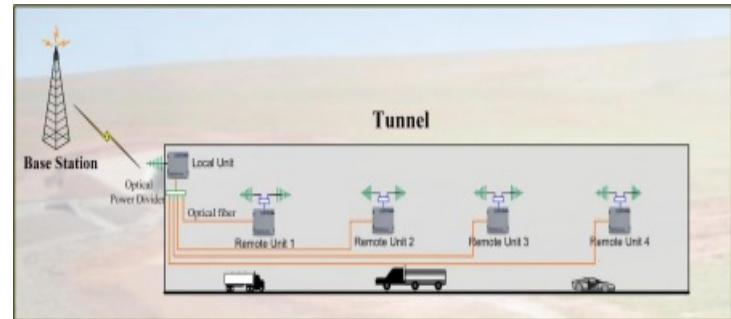
This is a typical case of integrated solution of BDA. The system uses BDA and repeater to build a radio network to cover both the inside and outside of these buildings.



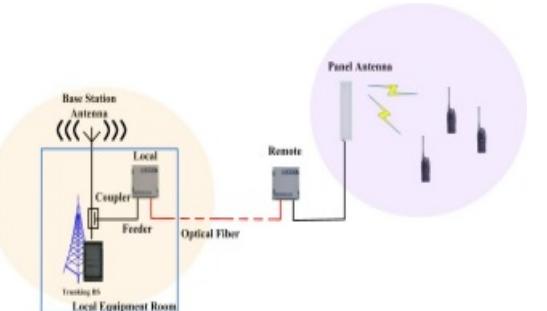
Dubai Intercom Hotel



Dubai Intercom Hotel Coverage Project



Outdoor Coverage



Fiber Optical BDA(Coupling directly)