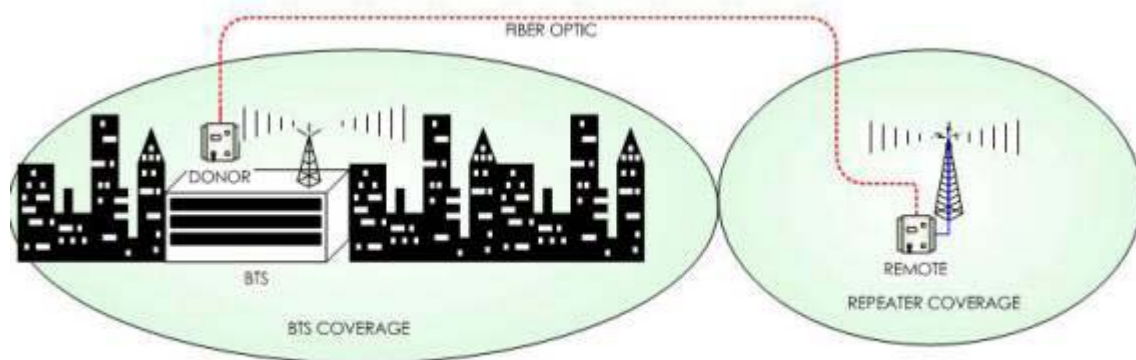


CDMA 800MHz TM-AR-800B Series Wireless Broadband Repeater

Description

Repeater is to provide radio coverage in a flexible and efficient way. Among the things with reference to the design it can be difficult to spread coverage all the way into side isles, narrow hallways, and several statuses, combined with different building materials. Moreover, if there are many people constantly moving, for instance in shopping malls, and the demand for coverage varies from one spot to another as well as during the day and during the week, satisfying the growing demand for capacity becomes a challenge. The same status can be occurred in some villa group, Subway, Speedway, etc. So the repeater can gives you the optimal solution.

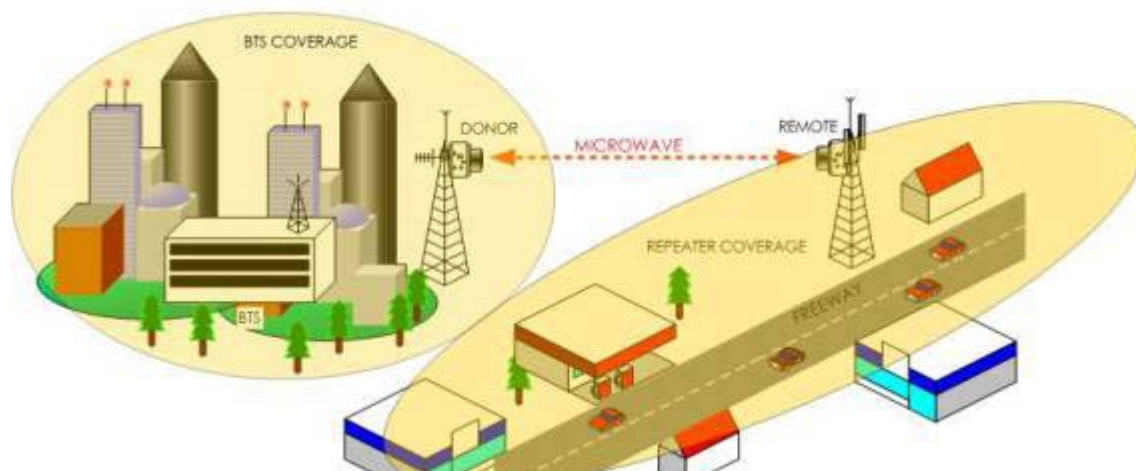
Application : In-building, Subway stations, Basement, Tunnels, Shopping malls, Speedway, Underground parking etc.



FIBER OPTIC REPEATER SYSTEM

Fiber optic repeater system consists of two; Donor and Remote. Donor is installed in BTS and Remote is installed in remote cell site. Donor captures RF signal and convert it into optic signal and transmit it to Remote via fiber optic cable. Remote reconverts the optic signal into RF signal and amplifies it by HPA. Fiber optic repeater is usually used outdoor since its output power is high.

In CDMA/TDMA/GSM system, linearity of HPA, regular gain and raffle are highly required. This Fiber optic is used the most frequently because of its performance and reliability in spite of higher cost than others.



Microwave repeater system consists of two repeaters; Donor and Remote. Donor which is located within BTS cell site converts RF signal from the BTS and transmits it to Remote. This system is idealistic for the areas which don't allow fiber optic or coaxial cable such as island or near highway. It costs a little higher than other systems but it is worth it because it has wide range of installation location.

CDMA 800MHz TM-AR-800B Series Wireless Broadband Repeater

Features

- Improved system noise figure and sensitivity, provides wider coverage
- High gain linear power amplifier technique, excellent inter-modulation and spurious emissions
- High out band rejection, with reliable performance
- Easy to expand and maintain
- Lightning proof and high-voltage-proof
- Compact design, water-resistant, weather-proof and antisepticise
- Applicable to large coverage area such as highway, town and tunnel etc.



Specification and Technical Information

Item Number		TM-AR-800B-50	TM-AR-800B-500	TM-AR-800B-01	TM-AR-800B-05	TM-AR-800B-10
Freq Range	Uplink	825-835MHz				
	Downlink	870-880MHz				
3dB Band width		Min 10MHz				
Gain	Ripple in band	Max +/- 1.5dB				
	Uplink	Min 60dB		Min 85dB		
	Downlink	Min 70dB		Min 90dB		
	AGC control range	Min 40dB (+/- 2dB)				
	Gain control range	31dB (1dB Step)				
Output Power	Uplink	Min +10dBm	Min +10dBm	Min +30dBm	Min +30dBm	Min +30dBm
	Downlink	Min +17dBm	Min +17dBm	Min +30dBm	Min +37dBm	Min +40dBm
Intermodulation in band		Max -15dBm/30kHz				
Spurious Emissions	9kHz-1GHz	Max -36dBm/30kHz				
	1GHz-12.75GHz	Max -30dBm/30kHz				
Out band Rejection	Uplink	Min 1.98MHz; Max -54dBc/30kHz				
	Downlink	Min 1.98MHz; Max -60dBc/30kHz				
Waveform Quality	Uplink	p>0.960				
	Downlink	p>0.950				
Input/Output Impedance		50 ohm				
Noise Figure		Max 5dB				
VSWR		Max 1.4				
Group time delay		Max 1.5us				
Others	Environmental Temperature	-30 - +55 degree C				
	Relative Humidity	Max 95%				
	Power Type	AC220V / 45-55Hz				
	Power Consumption	80w	80w	100w	150w	200w
RF Connector		N-F				
Dimension		620x400x200mm				