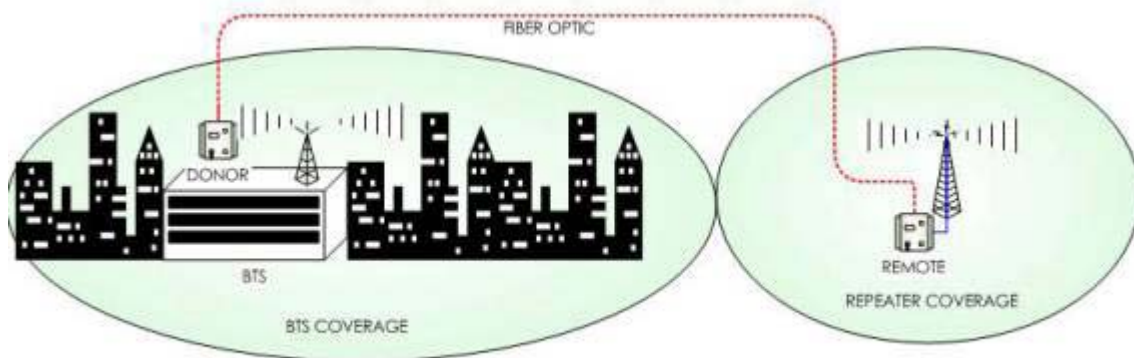


CDMA 800MHz TM-AR-800C Series Wireless Channelized Repeater

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.

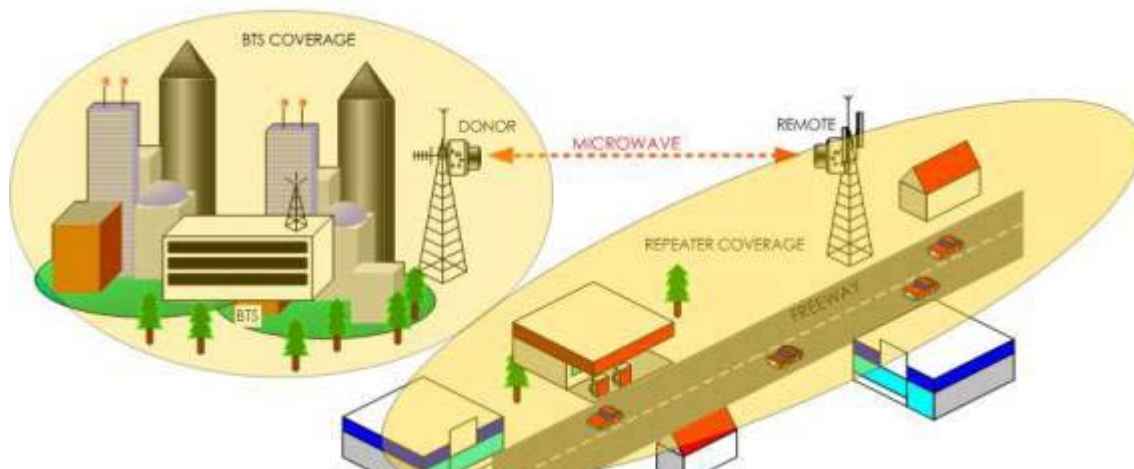
Application : In-building, Subway stations, Basement, Tunnels, Shopping malls, Speedway, Underground parking etc.



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-800C Series Wireless Channelized Repeater

Features

- Improved system noise figure and sensitivity, provides wider coverage
- Adopt PLL technology and digital wave filter technology, strong rejection capability.
- 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-800C-01	TM-AR-800C-02	TM-AR-800C-05	TM-AR-800C-10
Freq Range	Uplink	825-835MHz (1.23MHz/Channel)			
	Downlink	870-880MHz (1.23MHz/Channel)			
Channel		1 - 3 (Optional)			
3dB Band width		Min 1.25MHz			
Gain	Ripple in band	Max +/- 1.5dB			
	Uplink	Min 85dB			
	Downlink	Min 95dB			
	Gain control range	Min 40dB (+/- 2dB)			
AGC control range		31dB(1 Step)			
Output Power	Uplink	Min +30dBm	Min +30dBm	Min +30dBm	Min +30dBm
	Downlink	Min +30dBm	Min +33dBm	Min +37dBm	Min +40dBm
Intermodulation in band		Max -15dBm/30KHz			
Spurious Emission	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		50Ω			
Noise Figure		Max 5dB			
VSWR		Max 1.4			
Group time delay		Max 5us			
Frequency Stable		Max 0.05ppm			
Others	Environmental Temperature	-30 - +55 degree C			
	Relative Humidity	Max 95%			
	Power Type	AC220V / 45-55Hz			
	Power Consumption	100w	130w	150w	200w
	RF Connector	N-F			
Dimension		720x450x270			