

Single Band RF Indoor Repeater (Single Sub Band) R20 Repeater



APPLICATION AREAS

- Office and Residences
- Shopping Malls, Hotels, Hospitals, Restaurants, etc.
- Basements & Car Parking Areas

MODEL# IS1R1

R20 Single Band RF Repeater

Indoor Coverage

This integrated single band indoor RF repeater is equipped with a single sub band to provide enhancement to mobile signals from the service provider. It is a quick and low cost in-building coverage solution that can be deployed in a pre-set network environment to maintain call quality. It is lightweight, easy to install, and capable of enhancing coverage in areas of up to 2,000 sq. meters /20,000 sq. ft.



SINGLE BAND RF REPEATER
R20 [INDOOR]

SALIENT FEATURES

- Compatible with GSM, CDMA, iDEN, WCDMA and GSMR technologies
- Available for SMR 800 MHz / Cellular 850 MHz / SMR 900 MHz / EGSM / GSM 900 MHz / DCS 1800 MHz / PCS 1900 MHz / UMTS/ AWS frequency bands
- Designed for indoor applications
- Conforms to ETSI & FCC standards
- Compatible with frequency hopping BTS
- Low noise and highly linear RF performance
- Oscillation suppression feature
- APC (Automatic Power Control) for optimal linear output power
- System monitoring through USB port with easy to view GUI
- Remote CMC monitoring with modem (Optional)
- Remote Management System (OMCR) and SNMP (Simple Network Management Protocol) is optional
- High selectivity for excellent out-of-band signals rejection
- RSSI indication, local control and alarms

R20 Single Band RF Repeater

SPECIFICATIONS

Gain:	70dB Min. UMTS: 65dB Min.
Attenuation Range:	0-31 dB in steps of 1 dB
Attenuation Type:	Automatic/Manual through GUI/DIP Switch
Automatic Power Control:	10 dB Min.
Output Power (Composite):	+ 19 dBm Min.
RF Power (P1):	+ 26 dBm Min.
Spurious Emission:	<-36dBm @ 9KHz-1GHz <-30dBm @1GHz-12.75GHz
Noise Figure:	5 dB Max
Pass Band Ripple:	± 2 dB
Impedance:	50 Ohms
V. S.W.R.:	1.5:1 Max
Propagation Delay:	5.5 µs Max
Power Supply Adapter:	Input: AC 100 - 240 V, 47/63 Hz
Power Consumption Approx.:	24 Watts
RF Connector:	N Type Female
Weight Approx.:	2.5 kg. (6 lbs.)
Dimensions (L x W x H) Approx.:	352 x 141 x 54 mm (14 x 5 x 2 inches)
Operating Temperature Range:	-5 °C to +55 °C (+23 °F to +131 °F)
Remote Monitoring (Optional):	Wireless Modem (SNMP Option available)

FREQUENCY BANDWIDTH

- Equipped with single sub band in any one of the pre-set service bands, the bandwidth of the sub band is customized as per requirement

ACCESSORIES

- Operational Manual
- Power Supply Adapter with Cord
- USB Interface Cable
- Software (CMC) CD

All Shyam signal enhancement products can be customized to fit your requirements. Contact the Shyam location nearest you for further details.

ABOUT SHYAM TELECOM

Shyam Telecom is a leading global telecom equipment manufacturer supplying innovative indoor and outdoor wireless signal enhancement solutions to more than 100 networks on five continents. The company designs and manufactures cost effective RF and optical distributed antenna solutions that enable mobile operators, real estate developers, neutral-host providers, and businesses to provide seamless wireless coverage within their networks.

Shyam Telecom has been manufacturing RF and fiber equipment for over 30 years, enabling reliable mobile communications for GSM, CDMA, UMTS, and Public Safety. The product line is designed to provide solutions that meet all of today's network standards, wireless protocols and frequencies to ensure coverage today, and state-of-the art technology to meet the needs of the future.

NEXT GENERATION SIGNAL ENHANCEMENT



CORPORATE HEADQUARTERS

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