

# Single Band RF Indoor/Outdoor Repeaters (Up to Four Sub Bands) R4 Repeater



### APPLICATION AREAS

- Office, Residences & Shopping Malls
- Basements, Car Parking Areas, Hotels, Hospitals, Restaurants, etc.
- Tunnels & Highways
- Islands & Hilly Terrain
- Rural & Remote Outdoor Locations

# R4 Single Band RF Repeater

## Indoor & Outdoor Coverage

This modular single band RF repeater can be equipped with up to a maximum of 4 sub bands to provide indoor/outdoor coverage depending on the requirement. Availability in various RF powers, this repeater extends the coverage to areas where installation of additional BTS is not financially viable.



SINGLE BAND  
RF REPEATER  
R4 [INDOOR]



SINGLE BAND  
RF REPEATER  
R4 [OUTDOOR]

### 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 and outdoor coverage solutions
- 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 & alarms

# R4 Single Band RF Repeater

## SPECIFICATIONS

Attenuation Range:	0-31 dB in steps of 1 dB
Attenuation Type:	Automatic/Manual through GUI
Automatic Power Control:	25 dB Min.
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 $\mu$ s Max.
Power Supply Adapter:	Input: AC 100 - 240 V, 47/63 Hz
RF Connector:	N Type Female
Operating Temperature Range:	Indoor: -5 °C to +55 °C (+23 °F to +131 °F) Outdoor: -35 °C to +55 °C (-31 °F to +131 °F)
Remote Monitoring (Optional)	Wireless Modem (SNMP Option available)

## MODEL SPECIFICATIONS

RF Power Composite (dBm) Min	RF Power P1 (dBm) Min	Power Consumption (Approx.)	Gain (dB) Min	Dimensions (Approx.) mm (inches)	Weight (Approx.) kg. (lbs.)	Model Nos.
+19	+26	35 W	80	520x275x180 (20x11x7)	12 (26)	IS4R1 Indoor
+24	+30	80 W	85	520x275x180 (20x11x7)	12 (26)	IS4R2 Indoor
+30	+37	80 W	85	520x275x180 (20x11x7)	15 (33)	IS4R3 Indoor
+33	+40	100 W	95	700x385x210 (27x15x8)	25 (55)	OS4R1 Outdoor
+37	+44	200 W	95	700x385x210 (27x15x8)	25 (55)	OS4R2 Outdoor
+40	+47	300 W	95	800x445x210 (31x17x8)	32 (70)	OS4R3 Outdoor

## ACCESSORIES

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

## FREQUENCY BANDWIDTH

- Customizable as per requirement

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, and state-of-the-art technology to meet the needs of the future.

## NEXT GENERATION SIGNAL ENHANCEMENT



### CORPORATE HEADQUARTERS

**Shyam Telecom**  
246, Phase-IV Udyog Vihar  
Gurgaon, Haryana 122015 India  
Tel: 91 124 431 1600

Email: [contact@shyamtelecom.com](mailto:contact@shyamtelecom.com)

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**Shyam Telecom Inc.**  
6 Kilmer Road, Suite D  
Edison, NJ 08817, USA  
Tel: +1 732 985 1324

**Shyam Telecom GmbH**  
Mainaschaffer Str. 113  
D-63741 Aschaffenburg, Germany  
Tel: +49 6021 45 90 10