

Frequency Converting Outdoor Repeater (Two Channel) 2FCR



REMOTE UNIT



MASTER UNIT

APPLICATION AREAS

- Highways
- Islands
- Rural Locations
- Hilly Terrain
- Other Remote Outdoor Locations

MODEL# OS2F1/OS2F2

2FCR Single Band RF Repeater

Outdoor Coverage

The 2FCR is a modular single band RF repeater equipped with two channels to provide outdoor coverage. Available in multiple RF power options, this repeater extends coverage to low mobile density areas where installation of an additional BTS is not economically viable. The system is comprised of a Master and a Remote Unit, and is designed for point to point application. It is based on frequency conversion technology that permits optimum gain without the stringent antenna isolation requirements of conventional repeaters.

The Master Unit, installed close to the BTS, receives 0 dBm RF signal in downlink path through a BTS coupler, converts them into other predetermined link frequencies and radiates. The remote unit(s) located at a distant site receives the link frequencies, converts them into the original frequencies & transmits the signals to the coverage area. In the uplink direction, the signals received from the mobile users, are re-transmitted to the Master Unit using same conversion technique as in downlink.



SINGLE BAND
RF REPEATER
2FCR [OUTDOOR]

SALIENT FEATURES

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

2FCR Single Band RF Repeater

SPECIFICATIONS	
Gain:	Master Unit: 50dB Remote Unit: 100dB
Attenuation Range:	0-31 dB in Steps of 1 dB (Manual through GUI)
Automatic Power Control:	25 dB Min.
RF Power (Per Channel):	DL Master: +37 dBm DL Remote: +37 dBm, +40dBm UL Master: -10 dBm UL Remote: +37 dBm
Pass Band Ripple	+/- 2 dB
Noise Figure:	5 dB Max
Impedance:	50 Ohms
Propagation Delay:	6.5 µs Max.
CMC (VFD):	BITE to Measure RSSI, Power Output
Power Supply Adapter:	Input: AC 100 - 240 V, 47/63 Hz
Power Consumption Approx.:	Master: 175 Watts Remote: 200 to 300 Watts*
RF Connector:	N Type Female
Weight Approx.:	Master Unit: 30 kg. (65 lbs.) Remote Unit: 32 kg. (70 lbs.)
Dimensions (L x W x H) Approx.:	Master Unit: 800 x 445 x 210 mm (31 x 17 x 8 inches) Remote Unit: 800 x 445 x 210 mm (31 x 17 x 8 inches)
Operating Temperature Range:	-35 °C to +55 °C (-31 °F to +131 °F)
Remote CMC (Optional):	Wireless Modem (SNMP Option available)

* Depends on Power & Frequency

ACCESSORIES

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

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



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