

# EGSM900 Single Band Pico Repeater Series

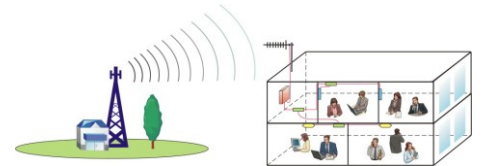


## SPR-E

The Pico Repeater provides an affordable solution to solve the indoor signal coverage problems due to signal fading and attenuation caused by architecture obstacles. And its easy installation and maintenance can help carrier get fast return. The repeater is working as a relay between the BTS and mobiles.

It picks up the strongest signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Indoor Signal Distribution System to the weak/blind coverage area. The mobile signal is also amplified and retransmitted to the BTS via the opposite direction.

The Pico Repeater can amplify the signal within the customized band.






## Features

- Two signal ports with full duplex design
- High system gain
- Linear power amplification to effectively suppress inter-modulation and spurious emission
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously
- Unique colour LEDs to indicate power supply and state and alarm
- Simple installation with external AC/DC adapter

## Standard Kit including:

- User Manual, Power adaptor

## Optional:

- Donor Antenna 
- Server Antenna 
- Coax Cable 

No.	Product	Description
1	SPR10-Exx	Single Band Pico Repeater +10 dBm EGSM900 (xxBandwidth)
2	SPR15-Exx	Single Band Pico Repeater +15 dBm EGSM900 (xxBandwidth)
3	SPR20-Exx	Single Band Pico Repeater +20 dBm EGSM900 (xxBandwidth)

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## TECHNICAL SPECIFICATIONS

ITEMS		EGSM900
Frequency Range	Uplink	880 ~ 915 MHz
	Downlink	925 ~ 960 MHz
Working bandwidth (UL/DL)		Customized - Operator specific (max.35MHz)
Gain		≥70dB (can be reduced by MGC)
Output Power		+10/+15/+20dBm
Manual Gain Control (MGC)		≥31dB
Automatic Gain Control (AGC)		≥20dB
Max. Input Power without Damage		≤0dBm
In-Band Ripple		≤5dB(P-P)
VSWR		≤2
Group Delay Time		≤ 5μs
I/O Impedance		50 Ω
Noise Figure		≤8dB
Out of Band Gain (DL&UL)		±400KHz ≤ 50dB
		±600KHz ≤ 40dB
		±1MHz ≤35dB
		±5MHz ≤25dB
Spurious Emission	Within working band	≤ -15dBm/30kHz
	Out of working band (Δf > 2.5MHz)	9kHz~1GHz: ≤ -36dBm/30kHz 1GHz~12.75GHz:≤-30dBm/30kHz
Third-order Inter-Modulation		max -36dBm @ 2 equal tones
RF Connector		N-Type Female
Power Consumption		≤30W
Power Supply		external AC 100-240V/ DC Power Supply
Dimensions		295 x 191 x 76mm
Weight		≤2.5kg
Alarm Monitoring System		Alarm for uplink self-oscillation
Indication LED		Power Supply, Alarm, state
Operating Temperature		-10 to +50 °C
IP Rating		IP30
Humidity		≤95%

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