

PRODUCT SPECIFICATION



MR918 Repeater

Indoor Coverage for GSM-R, 900 MHz (E)GSM, and 900 MHz UMTS Applications

By boosting the signal level the MR918 increases indoor coverage and allows high data rate connectivity.

The MR918 is easy to install. Also a web-based LMT simplifies to commission and configure the equipment. The RF link (donor) towards the base station is typically fed from an outdoor antenna while the coverage area is fed by an indoor antenna. The opportunity to adjust the passband of repeater helps to cover any specific segment of 900 MHz frequency band.

Due to modular design various combinations with MR918, for example variable triple segment or variable dualband versions will be possible within one cabinet.

Autogain functionality enables automatic gain adjustment in order to maximize the performance, however gain may be set manually if desired. An alarm interface with LED's indicates the status of the equipment locally. Moreover the status and alarms of the MR918 can be queried in the webbased LMT.

In Release 2 the MR918 will have an

optional remote monitor function that provides equipment alarming and basic configuration settings via a GSM-SMS. Alarm SMSs (including heart beat) can be send to the common Andrew OMC or to any standard SMS receiver (even a mobile phone). Moreover the MR918 can be connected to LAN.

- Easy to install due to light weight, small dimensions and autogain functionality
- Easy commissioning via webbased LMT
- Automatic level control (ALC)
- Variable bandwidth
- LED's for local alarm indication
- RSSI and Status indication via display
- Meeting GSM 05.05 and 3GPP
- Optional remote control via SMS (Release 2)
- Connection to LAN
- Multi-functional miniRepeater Family Modularity

Cost effective solution for enhancing indoor coverage for 900 MHz (E)GSM, GSM-R and 900 MHz UMTS applications

Andrew MR918 gives designers a simple tool to solve their small area 900 MHz (E)GSM, GSM-R and 900 MHz UMTS coverage and performance issues.

The MR918 is a bi-directional amplifier used to enhance signals between a mobile and a base station in a mobile network. It has been designed to increase signal strength in small and medium sized areas such as offices, shops, and basements.

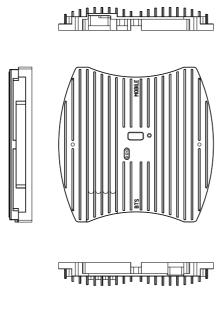


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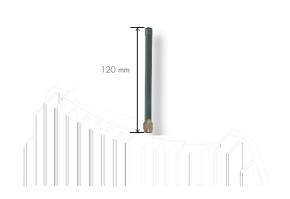
Electrical

Electrical				
Frequency range, MHz		Power Supply		
GSM-R	Uplink		Mains Power, Vac 100 to 240 Local Power, Vdc 6	
EGSM	Uplink	Power consumption, watt Antenna port	s 20	
GSM	Uplink	·	Connector SMA Female Return loss, dB 10	
RF output power, dBm		Indoor antenna	Optional	
Ki Ouipui power, abiii	Uplink		2.15 dBi	
	Downlink +18 @ 1 car 		and Control	
OICP3, dBm		Alarms	Temperature,Current,	
	Uplink	Options	ALC Remote control and Heartbeat via SMS	
P-1dBc, dBm	Uplink +28 Downlink +28		(Release 2)	
Noise figure Uplink/Downlink, dB		Environmental	Environmental Operating temperature range, °C +5 to +40	
0 1 .	Maximum gain 8.0			
Spurious emission, dB		Ingress protection	IP30	
Gain, dB	70			
Gain adjust range, dB		Mechanical		
Bandwidth options, MHz	variable 1 to in steps of 10	,	(in). 240 x 240 x 35 (9.5 x 9.5 x 1.4)	
Flatness, dB	±3	Weight, kg (lb)	1.5 (3.3)	
Delay, µs	5			
		All figures are typical val	All figures are typical values	

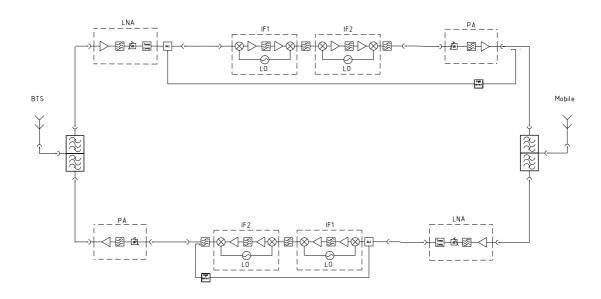
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MRx18 (Release 2)

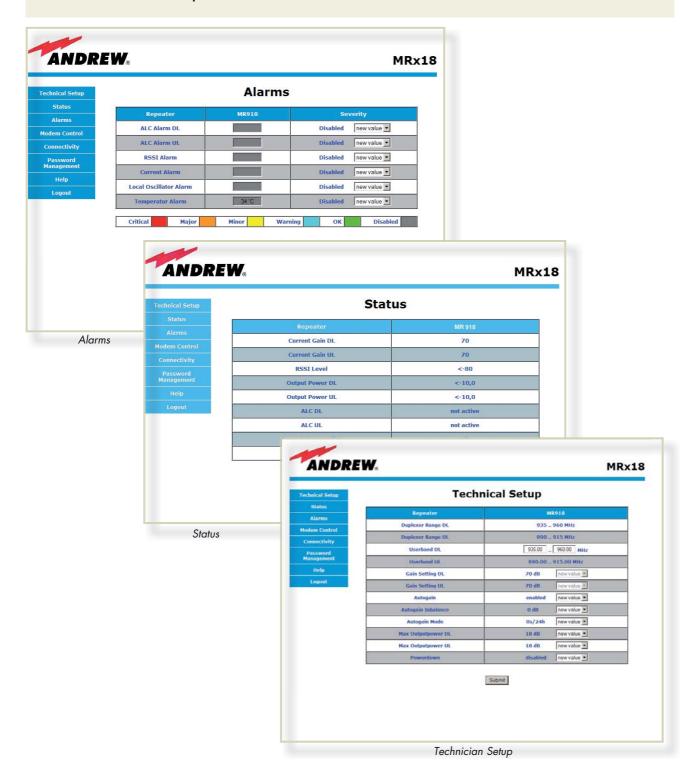


Optional Eqippment: Coverage Antenna for MRx18



Block diagram MRx18

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