



MRx18 miniRepeater

Big capabilities in a mini solution

Low-cost coverage enhancement for small-sized applications

Set it and forget it

Simple, affordable, compact and extremely easy to set up, the MRx18 miniRepeater is the ideal solution for extending coverage in small venues ranging from 2,300 square meters (25,000 square feet) and smaller. Its advanced functionality and intelligent features are what make fast and easy set-up possible. Feeding indoor CellMax® antennas, the MRx18 adaptively learns its environment for autogain setup. Once properly commissioned, you'll enjoy trouble-free operation for many years to come.

Integrated setup and testing functions inside

Say goodbye to bulky and expensive test equipment like spectrum analyzers. Everything you need to determine proper signal levels can be performed and viewed right on the MRx18 miniRepeater's LCD display.

- RSSI for measuring incoming signal strength
- Gain to display internal uplink and downlink gain settings
- Pout for actual output power levels



LED indicators below the LCD screen provide system status and alarms.



Ethernet connectivity and web-based browser

No special software or hardware is required to set up the MRx18 miniRepeater. The Ethernet port on the unit allows for easy connectivity and commissioning through a web-based browser.

Remote alarming is available through SNMP alarm traps sent through the Ethernet port or via SMS using an optional wireless modem. SMS alarms can be sent to the common Andrew OMC (A.I.M.O.S.) or to any standard SMS receiver. Basic settings can be changed when connected to a LAN through web pages or via SMS commands when connected to a wireless modem.



Modular design scheme delivers maximum application flexibility

The MRx18 miniRepeater's modular design allows for coverage solutions that best fit the application requirements. A single frequency band miniRepeater is offered in one, two, and three variable bandwidth models. A dual frequency band version is available with one variable bandwidth filter dedicated for one frequency band and two variable bandwidth filters dedicated for the other frequency band. Multiple-segment or dual-band models are made possible by combining two like housings. Basic and extension housings are mounted together to form a single, compact cabinet.



Single band, triple segment

- One variable bandwidth segment in a basic housing
- Up to two variable bandwidth segments in extension housing
- Integrated combiners to provide common donor and coverage antenna ports for all segments

Dual band, one + two segments

- Band one resides in basic housing, with one variable bandwidth segment
- Band two resides in extension housing, with up to two variable bandwidth segments
- Integrated crossband couplers to provide common donor and coverage antenna ports for both bands

Advanced features and functionality for small size in-building applications

More than just a bi-directional amplifier designed to enhance signal strength, the MRx18 is a complete in-building coverage solution with built-in, on-board setup, commissioning, testing and monitoring facilities. By combining various models, users can achieve single or dual band control with up to three segments, each with variable bandwidth sub-bands selectivity.

The ability to adjust the pass band to address any specific segment within the desired frequency range makes migrating to future networks easy without additional, costly hardware upgrades. Additionally, independent gain and ALC settings are applied to each sub-band, which allows the MRx18 to operate simultaneously with 2G and 3G signals without causing interference. Future proofing is a common design goal among all our repeater platforms. This ensures maximum longevity and application life, delivering greater ROI for your network investment.



MRx18 miniRepeater key features

- Multi-functional capabilities and modular design
- Variable bandwidth control from 1 to 25 MHz
- Lightweight and compact footprint for easy installation
- Autogain feature that continuously monitors and adapts to the RF environment to prevent interference
- LCD display for RSSI, gain, and output power
- Compliant with all regulatory agencies
- LEDs for local alarm indicators
- Easy commissioning and setup via web-based browser
- Optional remote control and LAN connection

Application possibilities

- Retail stores
- Small office building
- Small industrial facilities



Everyone communicates. It's the essence of the human experience. *How* we communicate is evolving. Technology is reshaping the way we live, learn and thrive. The epicenter of this transformation is the network—our passion. Our experts are rethinking the purpose, role and usage of networks to help our customers increase bandwidth, expand capacity, enhance efficiency, speed deployment and simplify migration. From remote cell sites to massive sports arenas, from busy airports to state-of-the-art data centers—we provide the essential expertise and vital infrastructure your business needs to succeed. The world's most advanced networks rely on CommScope connectivity.

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