

DRX

RANGE EXTENDER

for Motorola DTR and DLR series digital radios

- ❖ Compatible with Motorola DTR & DLR series digital radios
- ❖ Up to 50% More Coverage*
- ❖ Fill Dead Spots
- ❖ Battery Back-Up
- ❖ Plug-n-play Installation
- ❖ No FCC Licensing Fees



* Add more DRX units to increase coverage as needed.

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Unlike open spaces, your on-site business may have obstructions such as concrete walls, steel structures or sub-basements that may not be well suited for radio frequency propagation. These obstacles may create RF dead-spots that will limit your radio coverage on your site. The DRX Range Extender will allow you to maximize coverage of your Motorola DTR and DLR series digital radios to stay connected to your team.

The DRX Range Extender uses separate Receive (RX) and Transmit (TX) units to relay the signals to your DTR and DLR series radios that are out-of range of the transmitting radio. This operates similar to an analog repeater by repeating a single channel or talk group. Additional DRX extenders are required to extend each additional channel or talk group.

The DRX Range Extender is built around the Motorola DLR Digital Radio so you know it will perform under demanding conditions. No monthly fees, no network, no hassles. The DRX Range Extender is the perfect companion to your Motorola DTR and DLR series digital radios.

Key Features

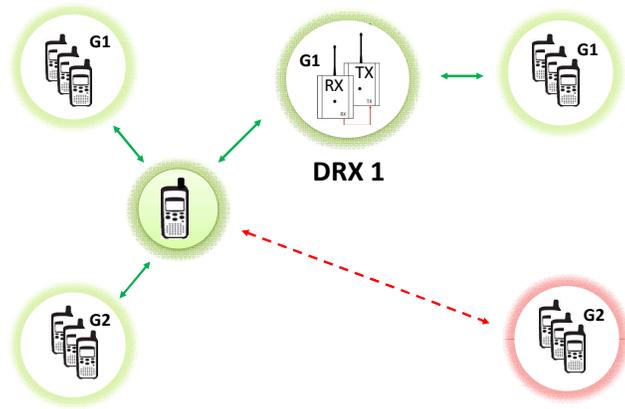
- ❖ Coverage where you need it. Up to 50% more coverage*.
- ❖ Add more DRX units for increased coverage (mesh network) or to extend additional talk groups.
- ❖ Easy set-up and installation. Can be used out-of-the box with your DTR or DLR series radios on default Channel 1 (no programming required). Customized programming is easy using the customer programming software (CPS) for your DLR or DTR radio. No need to modify existing fleet programming.
- ❖ Uses the same digital frequency hopping spread spectrum (FHSS) technology as your DTR and DLR series radio, providing improved performance against interference.
- ❖ Only assists calls when needed**. Radios in range of the transmitting radio will receive the call directly. This allows for seamless operation even when radios are operated off-site (field trips, other job-sites etc.) or whenever out-of-range of the DRX extender.
- ❖ Communication when you need it most. Internal battery backup provides operation of up to 10hrs during a power outage or for use at temporary jobsites/events.



DRX Range Extender

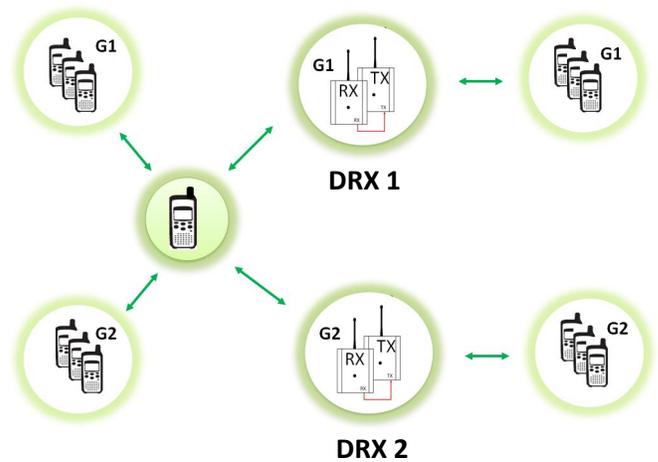
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Extending A Single Talk-Group



- ❖ All radios in range of the transmitting unit will receive calls directly.
- ❖ Radios on talk-group G1 that are out-of-range of the transmitting radio but within range of extender DRX 1 will receive calls from the extender unit.
- ❖ Radios on talk group G2 can receive calls only if within range of the radio transmitting on talk group G2 .

Extending Multiple Talk-Groups



- ❖ Radios on talk-group G1 can receive calls from either the transmitting radio or from extender DRX 1 on talk-group G1.
- ❖ Radios on talk-group G2 can receive calls from either the transmitting radio or from extender DRX 2 on talk-group G2.

*Coverage will vary based on building construction, landscape, RF environment and placement of extender unit. Comparisons made to Motorola DLR 1060 digital radio.

** One-to-one private calls and short messaging service (SMS) is not relayed by the DRX extender unit. Only radios that are within range of the transmitting radio will be able to receive private one-to-one calls or SMS messages.





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Product Specifications

GENERAL SPECIFICATIONS	
Transceiver	Motorola DLR1020
Operating Frequency	900 MHz ISM FHSS
Power Supply	DC 5V 500mA
Operating Voltage	3.7V \pm 0.5V
Battery	1800mAH Li-Ion
Backup Battery Life @ 10-10-80 Duty Cycle	10 hours
Transceiver FCC Designation	AZ489FT5871
Transceiver IC Model Designation	DLR1020B1
Transceiver IC Designation	109U-89FT5871
Dimensions without Antenna HxWxD	5.50"x 5.25"x 1.63"
Weight with 1800mAH Li-Ion Battery	13 Oz (ea.)
TRANSCIEVER SPECIFICATIONS	
Transmitter Output Power	1W
Receive Sensitivity (3% BER)	-125dBm
TX ACCPR	-50dBc
Frequency Stability (-30 C to +60 C)	\pm 1PPM
Spurious Harmonics	500uV/m (3m)
Spurious Rejection	< 43.5dBuV/m (3m)
Blocking	75dB
Modulation	8-level FSK 900 MHz ISM FHSS

*DTR, DLR and DLR1020 are trademarks of Motorola Solutions Inc.