

3M™ Wireless Communication System Model XT-1

Technical Data - #121

3M™ Omni-Directional Digital Range Extender 78-6911-4971-6

3M is pleased to introduce the new Omni-Directional Digital Range Extender, which provides Omni-directional radio coverage from one antenna.

Purpose

To enable extended coverage area for "outside order taking" or "fill in" areas of poor radio coverage due to blockage of the RF signal by large metal objects. Extends working distance from the digital system base station.

Radiation Pattern

The 3M™ Omni Directional Digital Range Extender Model XT-1 has an Omni-Directional antenna, which means it radiates the radio signal in all directions in the horizontal plane, however its vertical plane radio coverage is very limited.

When to use the Omni Directional Antenna and when to use the patch antenna

3M recommends you use an Omni Directional antenna if you need coverage in two adjacent areas, such as two sides of a building; 3M recommends the a patch antenna (78-6911-4691-7) if you require radio coverage in one area, such as one side of a building. An example of when 3M recommends the use of an Omni-Directional antenna is listed in Figure 1.

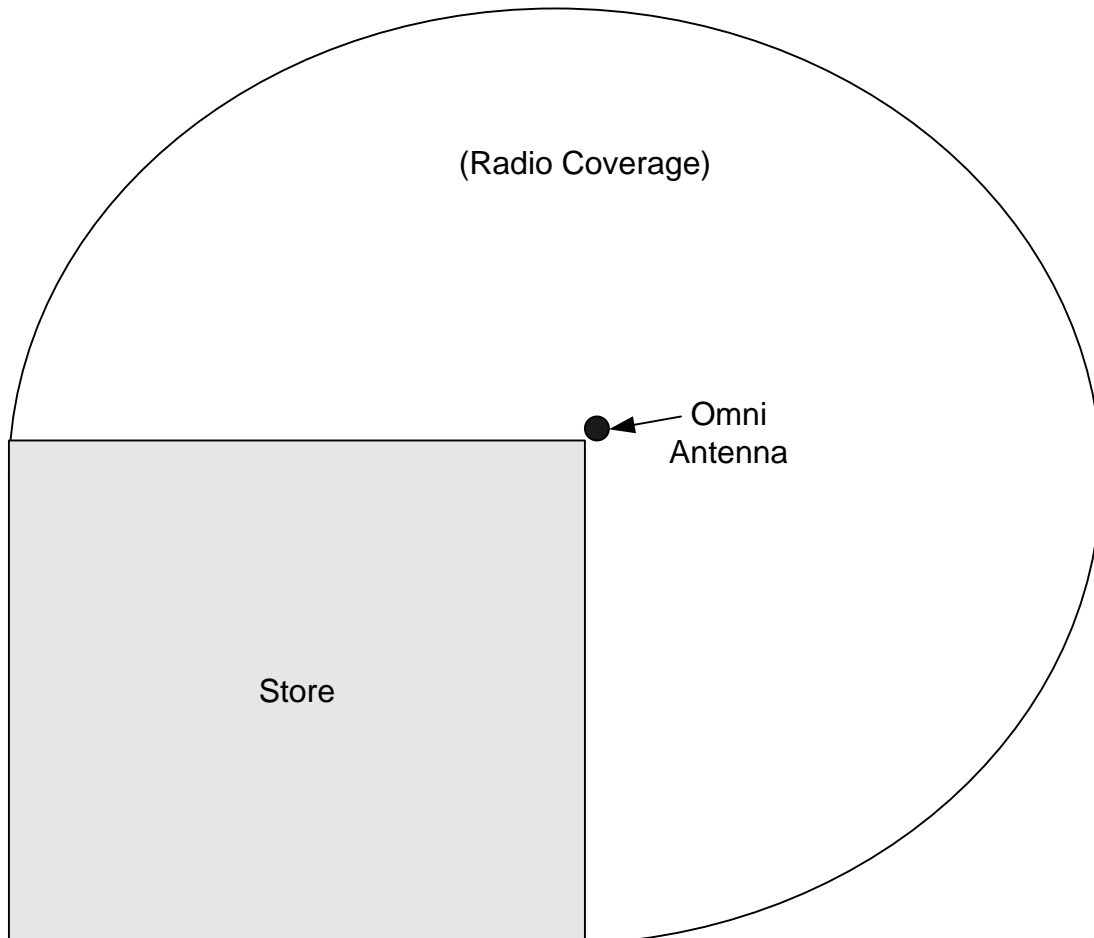


Figure 1. Recommended Omni Directional antenna installation.

If you only want to fill a narrow area such as a side of a building 3M recommends you use a patch antenna. An example of when a patch antenna is recommended can be visualized in Figure 2.

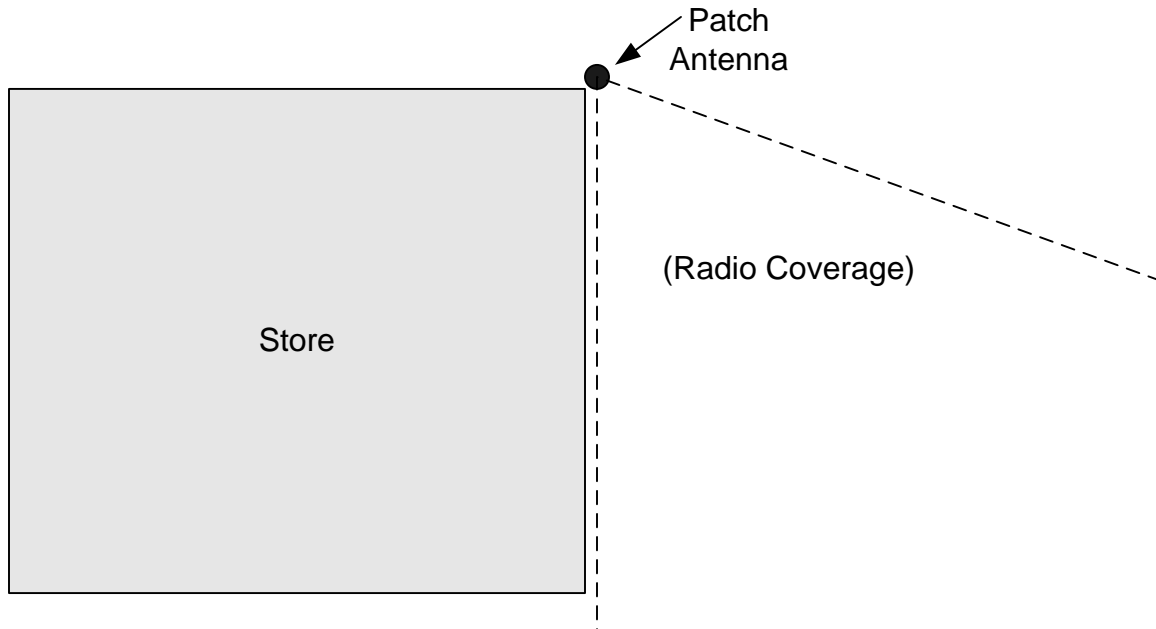


Figure 2. Recommended Patch Antenna installation.

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Wireless Intercom Systems – XT-1/C1060

All original parts or components (excluding accessories, consumable items)	24 months
Accessories, signal enhancer, vehicle detectors	6 months
XT1/C1060/C1025/C960/C860 Battery	12 months
XT-1/C1060/C5000 intercom systems warranties include 90 days free on-site labor from date of install (excluding defects arising from pre-existing wiring)	Not Warranted

3M
 Building and Commercial Services Division
 St. Paul, MN 55144-1000
 1-800-328-0033
 www.3M.com/XT1

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