



Product Type: OASIS™ Controllers

Reference: AN2099
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Different Forms of Interconnect in One Cabinet

Purpose

This document gives possible interconnects between Master and Local cabinets with OASIS Controllers.

Introduction

An OASIS Master or Local Controller Unit has one port to communicate to Central. In a Master Unit, there is a second port that is used to connect to the Local Units with “Pass-Through” Communications.

A Master Unit can use the Pass-Through feature to convert from the type of interconnect that comes into the cabinet to the type of interconnect that goes out to the Local Units—with both “Port-to-Central” and “Port-to-Local” connections. If different types of interconnect are used to communicate to the Local Units, it is necessary to change the cabling of the Master port.

In Local Units, however, do NOT use Pass-Through communications to convert from one interconnect type to another; this adds too much latency on the line. To convert interconnect types, it is also necessary to change the cabling of the Local port.

Applications

These interconnections apply to:

- **Master Cabinets** in which Fiber is used to Locals in one direction, and Radio is used to Locals in another direction.
- **Local Cabinets** in which Fiber enters the cabinet and Radio is used to go to other Local cabinets—or vice-versa.

Features and Benefits

Refer to the drawings on the page that follows for an efficient way to change the type of interconnections, and NOT increase the latencies of the communications.

More Information

Before you assemble the cables:

- Make sure of the type of modem (wireless, fiber or copper)
- Examine the interconnect device to find out:
 - Type of connector (male vs. female)
 - Configuration of the pins
 - Number of pins.



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Application Drawings

