Port and Cable Assignments

RJ-45 Port Description

RJ-45 station ports (MDI-X) can be attached to any devices which use a standard network interface (e.g., a workstation, server, bridge or router). RJ-45 daisy-chain ports (MDI) can be cascaded to a station port on similar networking devices (e.g., another switch or hub). Use unshielded twisted-pair (UTP) or shielded twisted-pair (STP) cable for RJ-45 connections: 100Ω Category 3, 4 or 5 cable for 10Mbps connections or 100Ω Category 5 cable for 100Mbps connections. Also be sure that the length of any twisted-pair connection does not exceed 100 meters (328 feet).

Pin	Assignments	Assignment (Daisy-Chain	
	(Station Ports 1-8)	Port, other device)	
1	Input Receive Data +	Output Transmit Data +	
2	Input Receive Data -	Output Transmit Data -	
3	Output Transmit Data +	Input Receive Data +	
6	Output Transmit Data -	Input Receive Data -	
4,5,7,8	Not Used	Not Used	

Schematics for both straight and crossover twisted-pair cable are shown below.

Straight-Through		Crossover		
1 IRD + — 1 0 2 IRD - 2 0 3 OTD + — 3 I	lapter) OTD + OTD - IRD + IRD -	(Switch) 1 IRD + 2 IRD - 3 OTD + 6 OTD -	(Switch) 1 IRD + 2 IRD - 3 OTD + 6 OTD -	