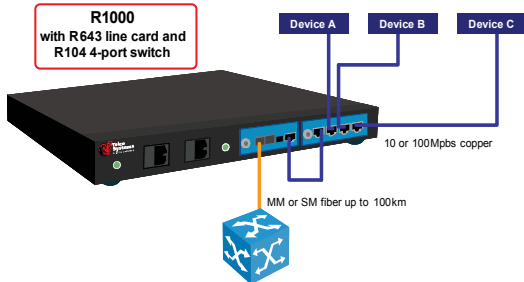


Metrobility® R104 Switch

Four-port Ethernet Layer 2 Switch



Maximize connectivity between fiber switch and up to three copper devices utilizing a single port



- CLI, FTP, and telnet interfaces
- SNMP agent for all the Metrobility chassis-based systems
- RADIUS client
- PING client and server
- Supports NetBeacon® ESP Element Manager Software and WebBeacon kernel
- NEBS Level 3 Certified

Key Applications

- Maximize connectivity between fiber switch and up to 3 copper devices utilizing a single ports
- Stack up to 4 Metrobility R5000 chassis using a single IP address

The Metrobility® four-port 10/100Mbps copper Ethernet Layer 2 switch from Telco Systems provides a cost-effective solution for situations in which a simple switching option with few ports is required. The switch is form-compatible for installation in the Metrobility chassis-based platforms.

When used in conjunction with any of Metrobility's line cards, three devices can be switched and data sent over fiber. As part of a Metrobility chassis, the card utilizes minimal rack space and can be managed through either NetBeacon® ESP Element Management; the WebBeacon kernel; or industry standard SNMP MIBs. Team the R104 with any of the Metrobility family of copper-to-

fiber line cards and the result is a solution that can extend network distance, provide a secure remote connection, or create a high-availability physical layer protection through the use of Metrobility's patented Line Protection and Restoration technology.

The Metrobility R104 four-port switch auto-negotiates 10/100 connections and provides four (4) RJ-45 interfaces. Each 10/100Mbps Ethernet port supports autonegotiation of both duplex and speed, as well as half and full duplex flow control. Additionally, each port includes automatic cross-over functionality, which eliminates the need for crossover cables, for easier network setup.

Specifications

Interfaces

Data Rate

- Fast Ethernet 100Mbps half duplex
200Mbps full duplex
- Ethernet 10Mbps half duplex
20Mbps full duplex

Network Connections

Twisted-Pair Interface

- Connector Shielded RJ-45, 8-pin jack
- Impedance 100 Ohms nominal
- Signal Level Output (differential)
0.95 to 1.05V (100Mbps)
2.2 to 2.8V (10Mbps)
- Signal Level Input
200mV min. (100Mbps)
585mV (10Mbps)
- Supported Link Length 100m
- Cable Type 100Mbps segments
Category 5 or 5E UTP/STP

Safety and EMC Compliance

- UL, CSA, CE, CB
- ICES-003 Class A (emissions)
- EN55022 Class A (emissions)
- EN55024:1998 (immunity)
- FCC Part 15 Class A

General

- Weight 3.5 oz (0.1 kg)
- Power +5V @ 1A 5W

Environmental

- Operating Temp 0°C to 50°C
- Operating Humidity 5% - 95% non-condensing

Ordering Information

Part Number	Description
R104-11	10/100BaseT 4-port switch with four RJ-45 connectors
Hardware requirements The R104 4-port Ethernet switch requires one slot in the following Metrobility chassis	
R5000-17HS	17-slot chassis, rack-mountable
R1000 series	2-slot chassis, rack-mountable
R400-02HS-1A	2-slot chassis