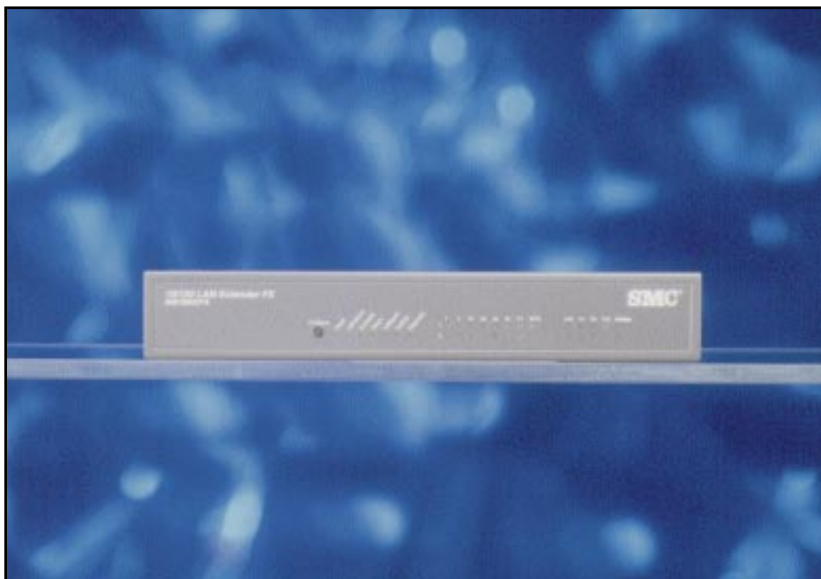# 10/100 LAN Extender FX
2-Port Fast Ethernet Switch
100BASE-TX/10BASE-T, 100BASE-FX

Easy Connectivity to Fast Ethernet Fiber Backbone

SMC's 10/100 LAN Extender FX is a two-port Fast Ethernet switch that can connect an Ethernet or Fast Ethernet network to a Fast Ethernet fiber backbone. It is equipped with one 100BASE-TX/10BASE-T port for twisted-pair cable and one 100BASE-FX port with an SC connector for fiber cable. Both ports support full-duplex mode, so you can double the bandwidth of each segment. And, the twisted-pair port supports Auto-Negotiation, so the optimum operating mode—100 or 10 Mbps, and half or full duplex—is selected automatically.

The 100BASE-TX/10BASE-T port can be connected to an Ethernet or Fast Ethernet hub or switch. Since these devices may have either crossover or straight-through ports, this LAN Extender port contains two RJ-45 connectors: one for crossover cable and the other (a Daisy-Chain port) for straight-through cable. This way, no matter what type of port the device has, you can connect it to the LAN Extender with straight-through cable.

The 100BASE-FX port can be connected to a fiber backbone. In addition, pairs of LAN Extenders can be joined together with fiber cable to extend the reach of a shared Fast Ethernet network. In full-duplex mode, the LAN Extender supports a fiber cable run of up to 2 km.

The LAN Extender employs a non-blocking design to allow simultaneous wire-speed transport of multiple packets at very low latency. And, it includes a comprehensive array of "at-a-glance" LEDs for easy network monitoring.

Features/Benefits

Outstanding Performance
◆ 400 Mbps of aggregate bandwidth
◆ Non-blocking design reduces latency
◆ Filtering and forwarding at full wire speed on all ports
◆ Automatic address learning and user-defined aging with 4,096 entry address table
◆ Back pressure blocks traffic when buffers are full to prevent packet loss
◆ Full-duplex operation doubles the band-width of each segment

Easy to Install and Use
◆ Auto-Negotiation on twisted-pair port for automatic selection of data rate and half- or full-duplex mode
◆ Plug and play; no software to load
◆ Diagnostic self-test procedures
◆ Comprehensive array of LEDs for "at-a-glance" monitoring of traffic on both segments
◆ Easily mounts on any flat surface

Compatible
◆ IEEE 802.3, 802.3u and ISO/IEC 8802-3 standards

Versatile
◆ Choice of 10 Mbps or 100 Mbps operation on twisted-pair port
◆ Single RJ-45 connector for both data rates
◆ Choice of crossover or Daisy-Chain port eliminates need for crossover cable
◆ Supports fiber cable run of 2 km in full-duplex mode

Reliable
◆ Three-year warranty
◆ Free technical assistance

SMC®

10/100 LAN Extender FX
2-Port Fast Ethernet Switch
100BASE-TX/10BASE-T, 100BASE-FX

Specifications

Ports
  1 RJ-45 connector, fixed crossover
    100BASE-TX/10BASE-T operation
    Auto-Negotiation
    Half/full duplex
  Daisy-Chain, straight-through
    Alternate for RJ-45
  1 SC connector
    100BASE-FX operation
    Half/full duplex

Network Interface
  100BASE-TX
    EIA/TIA certified Category 5 UTP, 2 pairs
    100 m (328 ft.)
  10BASE-T
    EIA/TIA Categories 3, 4, 5 UTP; 2 pairs
    100 m (328 ft.)
  100BASE-FX
    50/125 or 62.5/125 multimode fiber optic cable
    2 km (1.24 mi.) in full-duplex mode
    180 m (590.4 ft.) in half-duplex mode

Architecture
  ASIC

MAC Address Table
  4,096 entries

Buffer Size
  160 K bytes per port

Network Bridging Functions
  Filtering
  Forwarding
  Learning

Aggregate Forwarding/Filtering Rates
  Fast Ethernet/Ethernet, full wire-speed

Network Latency
  Less than 20 microseconds

Size (without bracket)
  10.75 in. W x 6.54 in. D x 1.72 in. H
  (27.3 cm x 16.8 cm x 4.36 cm)

Weight
  3.31 lb. (1.5 kg)

Temperature
  Operating 32° to 104° F (0° to 40° C)
  Storage -40° to 158° F (-40° to 70° C)

Humidity
  5% to 95%, non-condensing

Status LEDs
  Power
  Utilization%
  Forward%
  Filter%
  Collision%
  Full/Half (Duplex)
  Diagnostic
  Link
  Tx
  Rx
  Full
  100 Mbps (data rate)

Button
  Configure

AC Input
  100 to 240 V, 50 to 60 Hz, 50 W max.

Power Supply
  Internal, auto-ranging transformer
  100 to 240 VAC, 50 to 60 Hz

Power Consumption
  0.3 A @ 100 VAC, 0.2 A @ 240 VAC

Standards
  IEEE 802.3u Fast Ethernet
  IEEE 802.3 Ethernet
  ISO/IEC 8802-3 Ethernet

Compliances
  CE marking
  Safety
    UL 1950
    EN60950 (TÜV)
    CSA 22.2 No. 950
  Emissions
    FCC Class B
    CDOC Class B
    EN55022(1988)/(CISPR 22)(1985) Class B
    VCCI Class 2
  Immunity
    EN60555-2(1987) Class A
    EN60555-3
    prEN55024-2(1990)/IEC 801-2(1991)
    prEN55024-3(1991)/IEC 802-3(19841)
    prEN55024-4(1992)/IEC 803-4(1988)

Warranty
  Three years

Product	Order Number	Description
10/100 LAN Extender FX	SMC6602FX	Fast Ethernet switch with one 100BASE-FX port and one 100BASE-TX/10BASE-T port
	SMC6602FX INT	Model with power cords for Europe and UK

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