

# Express 10/100 Downlink

*Easily connect  
100Mbps workgroups  
to 10Mbps LANs*

The Intel Express 10/100 Downlink provides a simple, cost effective solution for connecting Fast Ethernet workgroups to existing 10Mbps LANs. The Express 10/100 Downlink



is a 2-port device capable of operating at either 10 or 100Mbps per port. This flexibility allows you to connect new Fast Ethernet workgroups with existing 10Mbps LANs with no degradation to performance.

Fast Ethernet utilizes the 100BASE-TX standard requiring category 5 (CAT 5) Unshielded Twisted Pair (UTP) cabling. The 10Mbps Ethernet ports utilizes the 10BASE-T standard requiring CAT 3, 4, or 5 TPE cabling.

## KEY FEATURES

- *Connects Fast Ethernet workgroups to existing 10Mbps LANs*
- *Supports a phased migration from 10Mbps to Fast Ethernet*
- *Comes from a provider of complete, cost-effective Fast Ethernet solutions*

The Express 10/100 Downlink offers a solution for sharing printing services between 10Mbps and Fast Ethernet segments. The Express 10/100 Downlink provides support of distances up to 100 meters for connecting LANs over distances. Just as important, the Express 10/100 Downlink comes from a provider of complete, cost effective Fast Ethernet solutions for your workgroups – including switches, hubs and industry leading, award winning adapters.

## Migrate to Fast Ethernet easily and cost-effectively

Fast Ethernet is a logical solution for your new workgroups. It delivers ten times the performance of regular Ethernet, so you don't have to worry about bottlenecks when all the clients and servers are generating heavy network traffic.

Ethernet is proven technology and is widely deployed, and Fast Ethernet is based on the same technology. As a result you can use existing knowledge, methodology and management tools to make the upgrade to Fast Ethernet a simple, cost-effective process.

## Outstanding features

- Supports full and half-duplex modes
- Self diagnostics for easier troubleshooting and fault analysis
- Conforms to IEEE 802.3 & 802.3u standards
- Extends wiring distances between workgroups

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## SPECIFICATIONS AND PRODUCT FEATURES

### PRODUCT FEATURES

Conforms to the IEEE 802.3 & 802.3u standards
Transparent to higher protocols such as IPX, IP, XNS, AppleTalk,* Vines,* DECnet,* ARP, Declat, Lansoft
Increased bandwidth to 200Mbps with full duplex support
Plug-and-Play, self-learns network configuration
Auto-senses speed selection and runs at either 10 or 100Mbps
Self diagnostics for easier troubleshooting and fault analysis
100% filtering and forwarding rate
Desktop installation

### COMPATIBILITY

Standard Ethernet IEEE 802.3 and IEEE 802.3u	
Protocols Supported	Transparent to higher protocols such as IPX, IP, XNS, AppleTalk, Vines, DECnet, ARP, Declat, Lansoft

### PHYSICAL CHARACTERISTICS

Power Supply	Input rates: 100 ~ 240 ( $\pm 10\%$ ) VAC, 50 ~ 60 ( $\pm 3$ ) Hz, 0.4A maximum
Temperature	0°C to 50°C (Standard Operating)
Humidity	5% to 95% (Noncondensing)
Dimensions	273mm x 166mm x 44mm (10.75" x 6.54" x 1.73")
Standards Compliance	10BASE-T, 100BASE-TX
LAN Interface	Two 10/100Mbps half/full duplex RJ-45 shielded twisted-pair ports
System Configuration	Push Button Configuration
LED Indicators	2 x 5 LED matrix for monitoring Ethernet network port status: port link, Tx, Rx, half/full duplex, and port speed; 2 x 8 LED matrix for monitoring network performance, bandwidth utilization, forwarding rate, filtering rate, collision rate, and system diagnostics
Max Filtering Rate	14,800 pps/10BASE-T port, 148,000 pps/100BASE-TX port
Max Forwarding Rate	14,800 pps/10BASE-T port, 148,000 pps/100BASE-TX port
Switch Processing Type	Adaptive cut-through – cut-through, fragment-free cut-through, and store-and-forward
Address Table	4K entries/port
Queue Buffer	160K bytes per port

## COMPANION PRODUCTS

Consider these related Intel products as a factor in your network planning.

- *EtherExpress™ PRO/100 LAN Adapters*
- *Express Switching Hub*
- *Express Stackable Hub*

## FOR PRODUCT INFORMATION

World Wide Web	<a href="http://www.intel.com/comm-net/sns/">http://www.intel.com/comm-net/sns/</a>
U.S. and Canada	800-538-3373 or 503-264-7354
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Australia	+61-2-9937-5920

## ORDER CODES

Intel Express 10/100 Downlink	EC100DL
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## FOR MORE INFORMATION, ORDER THESE FAXBACK\* DOCUMENTS

Fast Ethernet Overview and Deployment Guide	6354
EtherExpress™ PRO/100 Adapters Data Sheet	6285
Express Switching Hub Data Sheet	8503
Express Stackable Hub Data Sheet	8589
Intro to Switching White Paper	8504
Intel Branded Products Price List	9000

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