



# EC100FX Series ExpressCard Fibre Optic Network Adapters

The EC100FX series are a range of 100Base-FX network adapters, designed to plug into notebooks or desktop computers equipped with an ExpressCard/34 compliant slot and provide full duplex network connectivity over multimode fibre optic links. .

## ExpressCard Support

EC100FX series Network Adapters are fully compliant with the ExpressCard standard as initially defined by the ITU-T, and now maintained by the USB Implementors Forum (USB-IF).



## High Performance Fibre Network Connectivity For Notebooks

The EC100FX series provides an ideal solution for connecting notebooks and desktop computers to networks over multimode fibre optic cable links. Any later generation notebook or other portable devices equipped with an ExpressCard/34 slot will accept an EC100FX Adapter. The ExpressCard standard provides up to 2.5Gbps throughput from the slot, and all EC100FX models support 200Mbps Fast Ethernet 100Base-FX throughput in full duplex mode.

## Fibre Optic Connectivity For Range and Security

When data security or cable range are a must, EC100FX Adapters are the ideal solution. Unlike UTP copper network cable, fibre optic cable cannot be 'sniffed' and data security is assured. EC100FX Adapters support up to two kilometres range over multimode fibre optic cable.

## Wide Range of Fibre Connectors

The EC100FX series offers models with LC, SC and ST fibre connectors - the three most common connector types in use today. In addition, The EC100FXSTR model with ruggedised all-metal ST connectors is ideal for more extreme environments or where the host device is frequently disconnected from network cable links.

## Plug and Play Installation

All EC100FX series models are hot swappable devices, plug and play devices.

## PXE Remote Boot Support

All EC100FX series models support Preboot eXecution Environment (PXE) capability, enabling host notebooks or PC's to be remotely booted on to the network via a central PXE boot server.

## Comprehensive Driver Suite

EC100FX Series Adapters are provided with a driver suite which supports all major PC and Network Operating Systems, including drivers for all current Windows PC and Server versions and Linux.

### KEY FEATURES

### ALLOY EC100FX EXPRESSCARD FIBRE NETWORK ADAPTERS

- Complies with IEEE 802.3 100Base-FX and ITU-T ExpressCard standards
- Provides 100Mbps connectivity to Ethernet networks over fibre optic multimode cable
- Maximum cable range: 2 kilometres
- Install in notebooks or PCs with an Express-Card/34 compliant slot
- Maximum ExpressCard throughput: 2.5 Gbit/s
- LC, SC, ST or ruggedised all-metal ST fibre connector options for 100Mbps performance
- All models hot swappable
- LINK and ACTIVITY LED indicators
- Supports PXE remote boot
- Comprehensive driver suite
- RoHS compliant

## Alloy Computer Products



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## EC100FX Series: Part Numbers and Connectors

- EC100FXLC** ExpressCard Multimode Fibre Network Adapter, LC connector
- EC100FXSC** ExpressCard Multimode Fibre Network Adapter, SC connector
- EC100FXST** ExpressCard Multimode Fibre Network Adapter, ST connector
- EC100FXSTR** ExpressCard Multimode Fibre Network Adapter, ruggedised ST connector

EC100FX Series Model:	EC100FXLC	EC100FXSC	EC100FXST	EC100FXSTR
<b>Standards Compliance</b>				
<b>Standards</b>	IEEE 802.3u Fast Ethernet 100Base-FX, IEEE 802.3x Full-Duplex Flow Control, ITU-T ExpressCard			
<b>Interfaces</b>				
<b>Card Slot</b>	ExpressCard/34 compliant			
<b>Fibre optic Connector</b>	LC	SC	ST	Ruggedised all metal ST
<b>Performance</b>				
<b>ExpressCard Slot</b>	2.5Gbps maximum throughput			
<b>100Base-FX data rate</b>	100Mbps maximum data transfer rate			
<b>100Base-FX packet rate</b>	148800pps maximum throughput			
<b>Duplex mode</b>	802.3x full duplex (default); back pressure half duplex			
<b>Fibre Optic Cable Type and Range</b>				
<b>Cable Type</b>	62.5/125 or 50/125µm multimode; 2 kilometres maximum range			
<b>Physical Specifications</b>				
<b>Dimensions (WxHxL, mm)</b>	34 x 5 x 128 (not including fibre connectors)			
<b>Weight</b>	40 grams	42 grams	40 grams	42 grams
<b>Power Requirement</b>				
<b>Power</b>	3 watts maximum			
<b>Environmental Specifications</b>				
<b>LED indicators</b>	LINK, ACT			
<b>Temperature</b>	0° to 50° (32° to 104°F) operating			
<b>Humidity</b>	5% to 90% , relative, non-condensing			
<b>Emissions Approvals</b>				
<b>Certification</b>	CE Mark, FCC Part 15 Class B, C-Tick			
<b>Operating System Driver Support</b>				
<b>OS and NOS</b>	Windows 7, Vista, XP, 2000, 98, NT; Windows 2008 Server, 2003 Server; NetWare; Linux			
<b>Remote Boot</b>	PXE remote Boot supported			

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