



# USB

## Connectivity Series

ATEN offers a range of USB connectivity solutions to suit a wide variety of users and their applications. Our USB 2.0 products give you the freedom to connect high-speed devices like external storage drives, DVDs, digital cameras, scanners and more.

- **USB Hubs**

ATEN offers 2/4 port compact USB 2.0 hubs and 3/6 port FireWire hubs for desktop and laptop computers. They are ideal for users who need to connect multiple devices like keyboards, mice, printers, scanners, PDA and flash drives.

- **Host Controller Card**

ATEN USB PCI Cards are innovative implementations of the USB Hub principle. Instead of taking up valuable desktop space, the cards plug into a PCI slot on the computer's motherboard.

- **USB Extender Cables**

USB extender cables allow you to extend the distance between your computer and USB peripheral devices by several meters. These cables correct and transmit the signals as necessary to ensure optimal signal integrity.

- **USB Converters**

ATEN USB-to-serial and USB-to-parallel converters aid in the transition to USB by allowing devices with traditional interfaces to communicate over USB interfaces. These converters help extend the useful life of your peripheral devices and thereby protect your investment.

- **USB Peripheral Switches**

ATEN USB peripheral switches allow 2 to 4 computers to share the use of a single USB 1.1 or 2.0 peripheral device on a one-at-a-time basis.

# USB

Connectivity Series



## US221A/US421A 2/4-Port USB 2.0 Peripheral Switch

Intelligent Auto Switching, Ideal for multifunction Printers

- Enables two (US221A) or four (US421A) computers to share a single USB peripheral device
- Simple port selection via pushbuttons, configuration utility, or Auto Switch function
- Auto Switch Function – no need for print server
- USB 2.0 compliant
- Supports transfer rates up to 480 Mbps
- Multiplatform support – Windows and Mac
- LED indicators display port focus
- Overcurrent protection
- Bus-powered
- Hot pluggable
- Buzzer indicates switching between computers
- Supports multifunction printers



## IC250U 5-Port USB 2.0 PCI Card

- 5-port USB 2.0 PCI card
- Fully compliant with the USB 2.0 specification
- Supports transfer rates of up to 480 Mbps
- Compatible with PC systems
- Hot swappable

OS Support  
Win, Mac,  
FreeBSD



OS Support  
Win, FreeBSD





### UH275 4-Port USB 2.0 Hub

- Provides 4 additional USB 2.0 ports to existing USB Systems
- Four independent, fully functional, 480 Mbps downstream ports
- Fully compliant with the USB 2.0 specification
- Backward compatible with USB 1.1
- Supports transfer rates of 1.5 / 12 /480 Mbps
- Per port overcurrent protection
- Compact design, easy to store anywhere
- Plug and Play

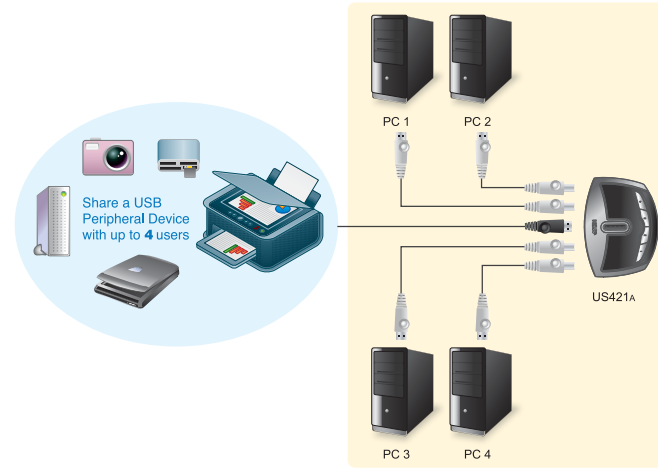


### UH284 4-Port USB 2.0 Magnetic Hub Magnet Pad Built-in for Quick Mounting

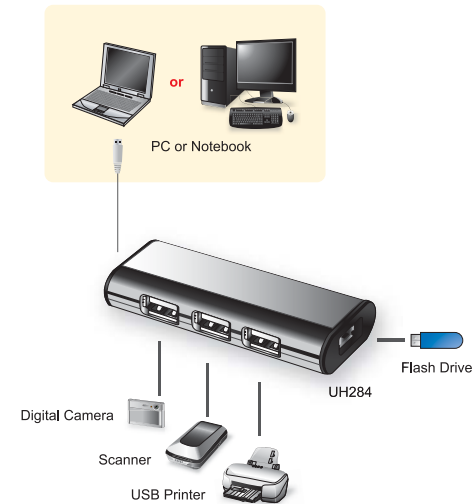
- Provides 4 additional USB 2.0 ports to existing USB Systems
- Four independent, fully functional, 480 Mbps downstream ports
- Fully compliant with the USB 2.0 specification
- Backward compatible with USB 1.1
- Supports transfer rates of 1.5 / 12 /480 Mbps
- Per port overcurrent protection
- Compact design, easy to store anywhere
- Built-in Magnet Pad for quick mount and easy movement
- Plug and Play
- Available in silver, black, and burgundy



### Setup (US421A)



### Setup (UH284)



### Accessories



1. Power Adapters: DC5V x 1 (UH275)(Optional)
2. USB 2.0 Cable x 1 (UH284)
3. USB Cables:1.8m x 1 (US221A/US421A)
4. Software CD x 1 (US221A/US421A)

# USB



## UC232A USB-to-Serial Converter

- Supports the RS232 Serial interface
- Compliant with USB 1.1
- Up to 230 Kbps data transfer rate
- Works with cellular phones, PDAs, digital cameras, modems, and ISDN terminal adapters



## UC2322 / UC2324 2/4-Port USB-to-Serial Hub

Connect Serial Devices via USB

- Easy way to add 2 or 4 RS-232 serial ports
- Fully compliant with USB 1.1; USB 2.0 compatible
- Supports RS-232 serial interface
- Supports automatic handshake mode
- Up to 115.2 Kbps data transfer rate for each serial port
- Dual data buffers for each upstream and downstream data transfer
- No IRQ, DMA, I/O address resources required
- Supports hot-swapping and plug-and-play
- Built-in 16KV ESD protection
- Supports both bus power and external power
- Works with cellular phones, PDAs, digital cameras, modems and ISDN terminal adapters



## UC4852 / UC4854 2/4-Port USB-to-Serial Hub

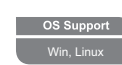
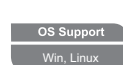
Connect Serial Devices via USB

- Easy way to add 2 or 4 RS-485 serial ports
- Fully compliant with USB 1.1; USB 2.0 compatible
- Supports RS-422/RS-485 serial interface
- Each port can independently switch between RS-422 and RS-485
- Supports automatic handshake mode
- Up to 115.2 Kbps data transfer rate for each serial port
- Dual data buffers for each upstream and downstream data transfer
- No IRQ, DMA, I/O address resources required
- Supports hot-swapping and plug-and-play
- Built-in 16KV ESD protection
- Supports both bus power and external power
- Works with cellular phones, PDAs, digital cameras, modems and ISDN terminal adapters



## UC1284B USB Parallel Printer Cable

- Fully bidirectional to ensure compatibility with today's latest printers
- 1 USB Type A connector for standard USB cable connection
- 1 C-36 parallel connector
- Non-powered
- Max. Throughput: 1.2 Mbits/ Sec (ECP Mode)





**UE250  
USB 2.0 Extender Cable**

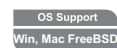
- Extends one USB device up to 5 m (16 ft)
- USB 2.0 compliant
- Fully compliant with USB Electrical and Timing Specs for USB Hubs
- Multiplatform support – Windows, Mac
- USB IF Approved
- Non-powered



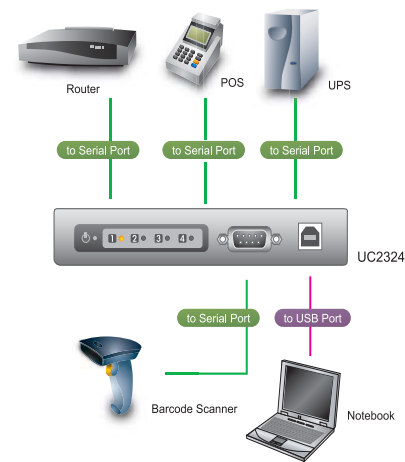
**UCE60  
USB Extender**

Uses Cat 5e Cable to extend the distance between the computer and a USB device up to 60m

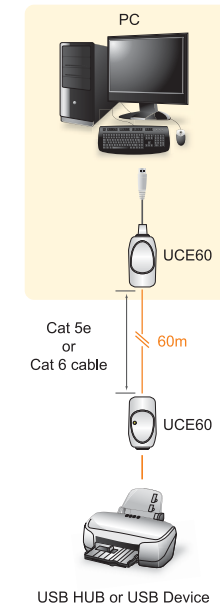
- Extends the transmission distance of a USB device up to 60 m using Cat 5e / Cat 6 cabling
- Provides support for any full-speed (12Mb/s) or low-speed (1.5Mb/s) USB devices
- Embedded USB Transceivers prevent signal loss
- Lowest cost solution for extending USB signals
- No additional installation software required
- LED indicates when additional external power supply needed



**Setup (UC2324)**



**Setup (UCE60)**



**Accessories**



1. USB Cable x 1 (UC2322/UC2324, UC4852/UC4854, US221A/US421A)
2. Software CD x 1 (UC2322/UC2324, UC4852/UC4854, US221A/US421A)

## Specifications

Model No.		US221A	US421A
Computer Connections		2	4
USB Device Connections		1	1
Connector	Computer	USB Type B	USB Type B
	Device	USB Type A	USB Type A
Standard		USB 2.0	USB 2.0
Port Selection		Pushbuttons, Software, Auto Switch	
Power Mode		Bus	Bus
OS Support		Win, Mac	
Cable Included		• (1.8 m)	• (1.8 m)
Environment	Operation Temp.	5–40°C	
	Storage Temp.	-20–60°C	
	Humidity	0–80% RH, Non-condensing	
Physical Properties	Housing	Plastic	
	Weight	54 g	97 g
	Dimensions (L x W x H)	7.20 x 6.60 x 2.50 cm	10.20 x 7.60 x 2.30 cm

## Host Controller Card

Model No.	IC250U
Type	USB
PCI Card	•
Port	5
Standard	USB 2.0
Connector	5 x USB Type A
Data Transfer Rate	Up to 480Mbps
Protection	IC Switching
Hot Swappable	•
OS Support	Win, FreeBSD

## USB Hubs

Model No.		UH275	UH284
Type		USB	USB
Port		4	4
Connector	Upstream	1 x USB Type A	1 x USB Mini Type B
	Downstream	4 x USB Type A	
Standard		USB 2.0	USB 2.0
Data Transfer Rate		1.5/12/480 Mbps	1.5/12/480 Mbps
Plug-n-play		•	•
Compact Design		•	•
Power Mode		Bus/Self	Bus/Self
Color		Silver	Silver, black, burgundy
Magnet Pad Built-in			•
Cable Included		• (Built-in)	•
Environment	Operating Temp.	5–40°C	
	Storage Temp.	-20–60°C	
	Humidity	0–80% RH, Non-condensing	
Physical Properties	Housing	Plastic	
	Weight	40 g	31 g
	Dimension (L x W x H)	9.00 x 3.80 x 1.20 cm	8.20 x 3.20 x 1.40 cm































































## USB Converters



















































Model No.	UC232A	UC2322 / UC2324	UC4852 / UC4854	UC1284B	
Name	USB-to-Serial Converter	USB-to-Serial RS-232 Hub	USB-to-Serial RS-485 Hub	USB Parallel Printer Cable	
Connector 1	USB Type A	USB Type B	USB Type B	USB Type A	
Connector 2	1 x DB-9	2/4 x DB-9	2/4 x DB-9	1 x C-36	
Standard	USB 1.1	USB 1.1/2.0	USB 1.1/2.0	USB 1.1	
Data Transfer Rate	Up to 230 Kbps	115.2 kbps	115.2 kbps	1.2 Mbits/Sec	
OS Support	Win, Vista, Mac, Linux	Win, Vista, Linux	Win, Vista, Linux	Win, Vista	
Cable Built In	35 cm	N/A	N/A	1.8 m	
Power Mode	Bus	Bus/Self		Bus	
Environment	Operation Temp.	5–40°C	0–50°C		
	Storage Temp.	-20–60°C	-20–60°C		
	Humidity	0–80% RH, Non-condensing			
Physical Properties	Housing	Plastic	Metal		
	Weight	60 g	0.30 kg / 0.32 kg	0.30 kg / 0.32 kg	0.11 kg
	Dimensions (L x W x H)	6.59 x 3.40 x 1.60 cm	12.50 x 8.15 x 2.50 cm		5.30 x 4.30 x 1.95 cm

## USB Extender / USB Extender Cables

Model No.	UE250	UCE60	
Standard	USB2.0	USB1.1	
Data Transfer Rate	Up to 480 Mbps	1.5/12 Mbps	
Units	1	2 (Local/Remote)	
Connector	Computer	USB Type A Male	USB Type A Male
	Device	USB Type A Female	USB Type A Female
	Unit to Unit	RJ-45	
Extension Cable	USB Cable (Built-in)	Cat 5, Cat 5e, Cat 6 Cable	
Signal Range	5 m	60 m	
OS Support	Windows, Mac	Windows, Mac	
Power Mode	Bus	Bus/Self	
No software driver required	•	•	
USB IF Approved	•		
Environment	Operating Temp.	5–40°C	0–40°C
	Storage Temp.	-20–60°C	-40–85°C
	Humidity	0–80% RH, Non-condensing	
Physical Properties	Weight	0.26 kg	0.14 kg

# Cables

Images	Product No.	Interface	TO PC/Source Interface	TO Switch Interface	Compatible Products	
	2L-1001P/C (1.8m) 2L-1003P/C (3m) 2L-1005P/C (5m)	2L-1006P/C (6m) 2L-1010P/C (10m) 2L-1020P/C (20m)	PS/2 Standard	  	  	CS912, CS914, CS82A, CS84A, CS88A, CS913A, CS9138,
	2L-5001P/C (1.2m) 2L-5002P/C (1.8m) 2L-5003P/C (3m)	2L-5005P/C (5m)	PS/2 Slim	  	  	
	2L-1001P (1.2m) 2L-1003P (3m) 2L-1005P (5m) 2L-1010P (10m) 2L-1020P (20m)	2L-1030P (30m) 2L-1040P (40m)	PS/2	  	  	For PS/2 console extension
<b>Console</b>						
	2L-5201P (1.2 m) 2L-5202P (1.8 m) 2L-5203P (3 m) 2L-5206P (6 m)		PS/2	  		CS72E, CS74E, ACS1208A, ACS1216A, CE250A, CS1308, CS1316, CE252, CS231, CS1708A, CS1716A, CL5708, CL5716, CL1000, CL5800, CL1008, CL1016, CN8000, CS1708, CS1716;
		2L-5702P (1.8 m)		PS/2	  	
		2L-5202A (1.8 m) 2L-5203A (3 m) 2L-5205A (5 m)		USB	 	
		2L-5202UP (1.8 m) 2L-5203UP (3 m) 2L-5205UP (5 m) 2L-5206UP (6 m)		USB	 	
		2L-5302UU (1.8 m) 2L-5303UU (3 m) 2L-5305UU (5 m)		USB	   	 
		2L-5502UP (1.8 m) 2L-5503UP (3 m) 2L-5506UP (6 m)		USB	 	  
		2L-1701P (1.8 m) 2L-1703P (3 m) 2L-1705P (5 m) 2L-1710P (10 m)		PS/2	   	
		2L-1701S (1.1 m)		PS/2	   	

	Images	Product No.	Interface	TO PC/Source Interface	TO Switch Interface	Compatible Products
J		2L-5301U (1.2 m) 2L-5302U (1.8 m) 2L-5303U (3 m) 2L-5304U (4 m) 2L-5305U (5 m)	USB	  	 	CS1732b, CS1734b, CS1732A, CS1734A, CS1754, CS1758, CE800b, CE750, CE770, CE790
K		2L-5301P (1.2 m) 2L-5302P (1.8 m) 2L-5303P (3 m) 2L-5305P (5 m)	PS/2	   	 	CS1732A, CS1734A, CS1754, CS1758, CE300, KE0220 CS1732b, CS1734b
L		2L-5201U (1.2 m) 2L-5202U (1.8 m) 2L-5203U (3 m) 2L-5205U (5 m)	USB	 		CS1742, CS1744, CS1308, CS1316, CS1758 (cascade for CL1758), CS231, CS1708a, CS1716a, CS1708b, CS1716b, CL5708, CL5716, CN8000, IP8000, CL5800, CE700a
M		2L-7D02U (1.8 m) 2L-7D03U (3 m) 2L-7D05U (5 m)	DVI USB	  	  	CS1762a, CS1764a, CS1782, CS1784, CS1642, CS1644, CM0264
N		2L-7D02UD (1.8 m) 2L-7D03UD (3 m) 2L-7D05UD (5 m)	DVI DUAL Link USB	  	  	CS1642, CS1644, CS1782, CS1784
O		LIN5-26WI-WLLG (1.8m)	DVI DUAL Link			CS1642, CS1644
P		2L-7D02I	DVI-I			CS1642, CS1644
Q		2L-7D02UH	HDMI	  	  	CS1792, CS1794, CM0264
R		2L-7D02H	HDMI			CS1792, CS1794, CM0264
S		2L-1700 (0.6 m) 2L-1701 (1.8 m) 2L-1703 (3 m) 2L-1705 (5 m) 2L-1715 (15 m) <b>Daisy chain cable</b>	-	<b>Daisy chain in</b> 	<b>Daisy chain Out</b> 	ACS1208A, ACS1216A, CS1708a, CS1716a, CS1708b, CS1716b, CL5708, CL5716, CL1008, CL1016



**About SPHD Connectors:**

Many of our KVM switches use SPHD connectors for their KVM and/or console ports. We have specifically modified the shape of these connectors so that only KVM cables that we have designed to work with the KVM switch can be connected.

# Product Compatibility List

KVM	Expansion	
	Connection	Compatible KVMs
CS88A	Cascade	CS88A, CS9134, CS9138, CS128A, CS138A
CS9134	Cascade	CS9138, CS138A, CS9134, CS88A
CS9138	Cascade	CS9138, CS138A, CS9134, CS88A
CS228	Cascade	CS9138*, CS9134*, CS88A*
CS428	Cascade	CS9138*, CS9134*, CS88A*
CS1308	Cascade	CS1754, CS1758, CS1308, CS1316
CS1316	Cascade	CS1754, CS1758, CS1308, CS1316
CS1754	Cascade	CS1754, CS1758
CS1758	Cascade	CS1754, CS1758
CS1708A	Daisy-chain	ACS1208A, ACS1216, CS1708A, CS1716A
CS1716A	Daisy-chain	ACS1208A, ACS1216, CS1708A, CS1716A
ACS1208A	Daisy-chain	ACS1208A, ACS1216A, CS1708A*, CS1716A*
ACS1216A	Daisy-chain	ACS1208A, ACS1216A, CS1708A*, CS1716A*
CL5708	Daisy-chain	ACS1208A, ACS1216A, CS1708A, CS1716A
CL5716	Daisy-chain	ACS1208A, ACS1216A, CS1708A, CS1716A

\*Does not support the audio features of audio enabled KVM switches   \*Does not support the audio features of audio enabled KVM extenders   \*Must be the first level



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