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 a 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

NEW
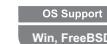
US221A/US421A
2/4-Port USB 2.0 Peripheral Switch
Itelligent Auto Switching, Ideal for multifunction Printers

- 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	USB 2.0	Non-Powered	Windows 7

OS Support	
Win, FreeBSD	USB 2.0

Setup (US421A)

Share a USB Peripheral Device with up to **4** users

PC 1　PC 2　PC 3　PC 4

US421A

UH275
4-Port USB 2.0 Hub
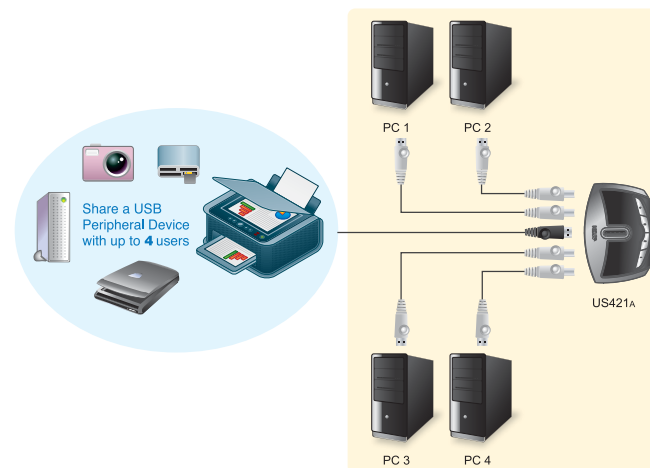
- Provides 4 additional USB 2.0 ports to existing USB Systems
- Four independent, fully functional, 480 Mbps downstream ports
- Fully compliant with the USB 2.0 specification
- Backward compatible with USB 1.1
- Supports transfer rates of 1.5 / 12 /480 Mbps
- Per port overcurrent protection
- Compact design, easy to store anywhere
- Plug and Play

OS Support
Win, Mac FreeBSD

USB 2.0

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

OS Support
Win, Mac, FreeBSD

USB 2.0

Setup (UH284)

PC or Notebook
or

Digital Camera
Scanner
USB Printer
UH284
Flash Drive

Accessories

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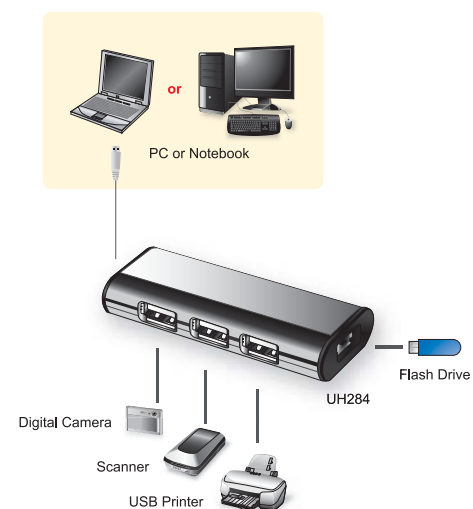
1. Power Adapters: DC5V x 1 (UH275)(Optional)
2. USB 2.0 Cable x 1 (UH284)
3. USB Cables:1.8m x 1 (US221A/US421A)
4. Software CD x 1 (US221A/US421A)

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)

Rear

Rear

OS Support
Win, Linux, Mac

OS Support
Win, Linux

OS Support
Win, Linux

OS Support
Win

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)

Router   POS   UPS

to Serial Port   to Serial Port   to Serial Port

UC2324

to Serial Port   to USB Port

Barcode Scanner   Notebook

Setup (UCE60)

PC

UCE60

Cat 5e
or
Cat 6 cable   60m

UCE60

USB HUB or USB Device

Accessories

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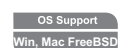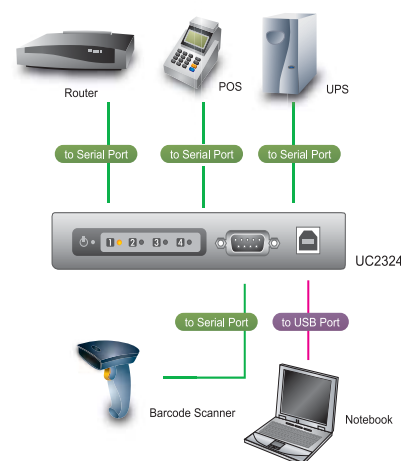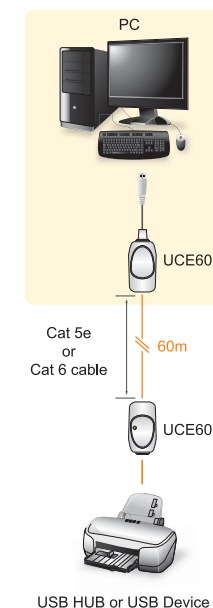
1. USB Cable x 1 (UC2322/UC2324,UC4852/UC4854,US221A/US421A)
2. Software CD x 1 (UC2322/UC2324,UC4852/UC4854,US221A/US421A)

OS Support
Win, Mac FreeBSD   USB 2.0

OS Support
Win, Mac FreeBSD

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		5–40°C
	Storage Temp.	-20–60°C	-20–60°C		-20–60°C
	Humidity	0–80% RH, Non-condensing			
Physical Properties	Housing	Plastic	Metal		Plastic
	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
A	2L-1001P/C (1.8m) 2L-1006P/C (6m) 2L-1003P/C (3m) 2L-1010P/C (10m) 2L-1005P/C (5m) 2L-1020P/C (20m)	PS/2 Standard	6 pin mini-DIN Male	6 pin mini-DIN Male	HDB-15 Male	6 pin mini-DIN Male	6 pin mini-DIN Male	HDB-15 Female	CS912, CS914, CS82A, CS84A, CS88A, CS9134, CS9138,
	2L-5001P/C (1.2m) 2L-5005P/C (5m) 2L-5002P/C (1.8m) 2L-5003P/C (3m)	PS/2 Slim							
	2L-1001P (1.2m) 2L-1030P (30m) 2L-1003P (3m) 2L-1040P (40m) 2L-1005P (5m) 2L-1010P (10m) 2L-1020P (20m)	PS/2	6 pin mini-DIN Female	6 pin mini-DIN Female	HDB-15 Female	6 pin mini-DIN Male	6 pin mini-DIN Male	HDB-15 Male	For PS/2 console extension
			Console						
B	2L-5201P (1.2 m) 2L-5202P (1.8 m) 2L-5203P (3 m) 2L-5206P (6 m)	PS/2	6 pin mini-DIN Male	6 pin mini-DIN Male	HDB-15 Male	SPHD Male			CS72E, CS74E, ACS1208A, ACS1216A, CE250A, CS1308, CS1316, CE252, CS231, CS1708A, CS1716A, CL5708, CL5716, CL1000, CL5800, CL1008, CL1016, CN8000, CS1708i, CS1716i
C	2L-5702P (1.8 m)	PS/2	6 pin mini-DIN Male	6 pin mini-DIN Male	HDB-15 Male	SPHD Male			CS72E, CS74E, ACS1208A, ACS1216A, CE250A, CS1308, CS1316, CE252, CS231, CL1000, CL5800, CS1708A, CS1716A, CL5708, CL1008, CL5708, CL5716, CL1016, CN8000, CS1708i, CS1716i
D	2L-5202A (1.8 m) 2L-5203A (3 m) 2L-5205A (5 m)	USB	2 Audio plugs	HDB-15 Male		SPHD Female			CS1742, CS1744
E	2L-5202UP (1.8 m) 2L-5203UP (3 m) 2L-5205UP (5 m) 2L-5206UP (6 m)	USB	USB A Type Male	HDB-15 Male		SPHD Male			CS72E, CS74E, CE250A, CE252 ACS1208A, ACS1216A, CL1008, CL1016
F	2L-5302UU (1.8 m) 2L-5303UU (3 m) 2L-5305UU (5 m)	USB	USB A Type Male	USB A Type Male	2 Audio plugs	HDB-15 Male	SPHD Male	2 Audio Plugs	CS1772, CS1774
G	2L-5502UP (1.8 m) 2L-5503UP (3 m) 2L-5506UP (6 m)	USB	USB A Type Male	HDB-15 Male		6 pin mini-DIN Male	6 pin mini-DIN Male	HDB-15 Female	CS82A, CS84A, CS9134, CS9138, CS912, CS914, CS88A
H	2L-1701P (1.8 m) 2L-1703P (3 m) 2L-1705P (5 m) 2L-1710P (10 m)	PS/2	6 pin mini-DIN Male	6 pin mini-DIN Male	2 Audio Plugs	HDB-15 Male	Port DB-25 Male		CS228, CS428
I	2L-1701S (1.1 m)	PS/2	6 pin mini-DIN Female	6 pin mini-DIN Female	2 Audio Sockets (Female)	HDB-15 Female	Port DB-25 Male		CS228, CS428

	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	USB A Type Male	HDB-15 Male	2 Audio Plugs		SPHD Male	2 Audio Plugs		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	6 pin mini-DIN Male	6 pin mini-DIN Male	2 Audio Plugs	HDB-15 Male	SPHD Male	2 Audio Plugs		CS1732A, CS1734A, CS1754, CS1758, CE300, KE0220 CS1732B, CS1734B
L **M**		2L-5201U (1.2 m) 2L-5202U (1.8 m) 2L-5203U (3 m) 2L-5205U (5 m)	USB	USB A Type Male	HDB-15 Male			SPHD-15 Male			CS1742, CS1744, CS1308, CS1316, CS1758 (cascade for CL1758), CS231, CS1708A, CS1716A, CS1708i, CS1716i, CL5708, CL5716, CN8000, IP8000, CL5800, CE700A
N		2L-7D02U (1.8 m) 2L-7D03U (3 m) 2L-7D05U (5 m)	DVI USB	USB A Type Male	2 Audio plugs	DVI-D Male (Single Link)		USB B Type Male	2 Audio plugs	DVI-D Male (Single Link)	CS1762A, CS1764A, CS1782, CS1784, CS1642, CS1644, CM0264
O		2L-7D02UD (1.8 m) 2L-7D03UD (3 m) 2L-7D05UD (5 m)	DVI DUAL Link USB	USB A Type Male	2 Audio plugs	DVI-D Male (Dual Link)		USB B Type Male	2 Audio plugs	DVI-D Male (Dual Link)	CS1642, CS1644, CS1782, CS1784
P		LIN5-26WI-WLLG (1.8m)	DVI DUAL Link	DVI-D Male (Dual Link)				DVI-D Male (Dual Link)			CS1642, CS1644
Q		2L-7D02I	DVI-I	DVI-I Male (Single Link)				DVI-I Male (Single Link)			CS1642, CS1644
R		2L-7D02UH	HDMI	USB A Type Male	HDMI	2 Audio Plugs		USB B Type Male	HDMI	2 Audio Plugs	CS1792, CS1794, CM0264
S		2L-7D02H	HDMI	HDMI				HDMI			CS1792, CS1794, CM0264
		2L-1700 (0.6 m) 2L-1701 (1.8 m) 2L-1703 (3 m) 2L-1705 (5 m) 2L-1715 (15 m) Daisy chain cable	–	Daisy chain in Port DB-25 Male				Daisy chain Out Port DB-25 Female			ACS1208A, ACS1216A, CS1708A, CS1716A, CS1708i, CS1716i 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

ATEN®

Simply Better Connections™

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