



Data Communication

Creating a connection between two interfaces is no longer a problem with the ATEN range of reliable cost-efficient, bi-directional converters. These are extremely useful in situations where the only port available uses an interface that is different from the device you need to connect to. In addition, there are some not-so-common standards that a converter can easily access which might otherwise be impossible or too expensive to consider. ATEN's range of converters has been designed to provide simple solutions to the problems of data loss and conversion difficulties.

We offer a wide range of auto switches and interface converters which include serial PCI cards and parallel line extenders. The Bitronics-capable models allow you to take advantage of enhanced parallel port features, such as bi-directional communication, higher data throughput, and printer control from the keyboard.

- **Auto Switch**

Share peripherals between computers.

- **Printer Network**

Simultaneous printing capability.

- **RS-232 to RS-485/RS-422 Bi-directional Converter**

Data transmission controlled by the RTS signal.

- **Serial / Parallel Converter**

Automatically adjusts signal strength to compensate for distance.

- **Serial PCI Card**

RS-232/RS-422/RS-485 converters and extenders are heavily represented in many enterprise fields.

- Telecommunications industry
- Auto-teller machines
- Airport check-in and flight schedule display systems
- Automatic postal machines

Data Communication



AF142 Auto Switch

- Shares peripherals between computers
- Reversible operation for 1-in-2-out or 2-in-1-out
- Transfers files between computers
- Supports IEEE-1284 nibble mode
- Print job management is first come, first served
- Supports broadcast mode
- Selects ports by button and software code operation
- Non-powered
- HP Laser Jet, Canon, Epson and NEC Compatible



AF241 Auto Switch

- Shares peripherals between computers
- Transfers files between computers
- Supports IEEE-1284 nibble mode
- Print job management is first come, first served
- Selects ports by button and software code operation
- Non-powered
- HP Laser Jet, Canon, Epson and NEC Compatible



AS8144B Bitronics Auto Switch

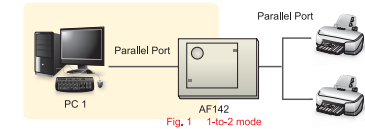
- Bi-tronics and Centronics compatible
- Reversible operation for 1-in-4-out or 4-in-1-out
- Supports IEEE-1284 nibble mode
- Print job management is first come, first served
- Supports broadcast mode
- Selects ports by button and software code operation
- Non-powered
- HP Laser Jet, Canon, Epson and NEC Compatible



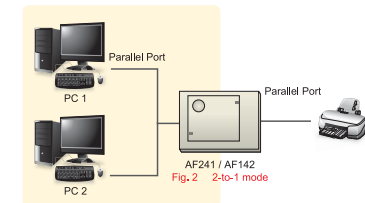
AS248 Printer Network

- At least 24 PCs can share 8 Centronics printers with the AS248 network by means of 4-wire phone lines
- Simultaneous printing capability
- Works in bus/star/tree topologies
- Data transfer rate: 22 Kbytes per second
- Cable distance of up to 366 m (1200 ft)
- Easy Installation
- Selects printers by software code operation
- Non-powered

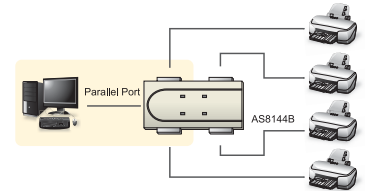
Setup (AF142)



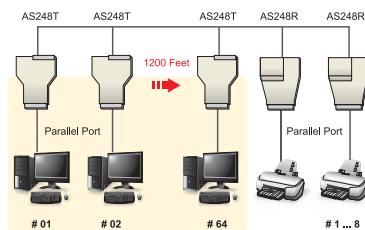
Setup (AF241)



Setup (AS8144B)



Setup (AS248)



Accessories



1.

1. RJ116 Cable x 1 (AS248)





IC485S
RS-232/RS-485 Interface Converter
 Monitor Configuration Support

- Data transmission controlled by the RTS signal
- DCE / DTE selectable
- Point-to-point, multidrop, and simplex/duplex link selection
- Four wire full duplex; two wire half duplex
- Compact size
- Cable distance up to 1200 m
- Monitor configuration support
- Supports baud rates up to 115.2kbps



IC485SI
RS-232/RS-485 Interface Converter
 Signal and Power Isolation Support

- Data transmission controlled by the RTS signal
- DCE / DTE selectable
- Point-to-point, multidrop, and simplex/duplex link selection
- Four wire full duplex; two wire half duplex
- Compact size
- Cable distance up to 1200 m
- Signal and power isolation
- Supports baud rates up to 115.2kbps



IC485SN
RS-232/RS-485 Interface Converter
 Non-Powered Operation

- Data transmission controlled by the RTS signal
- DCE / DTE selectable
- Point-to-point, multidrop, and simplex/duplex link selection
- Four wire full duplex; two wire half duplex
- Compact size
- Cable distance up to 1200 m
- Non-powered operation
- Supports baud rates up to 115.2kbps



IC485AI
RS-232 to RS-482/RS-485
Bidirectional Converter

- Automatic internal RS-485 bus supervision
- No external flow control signals for RS-485 required
- Transient suppression on RS-485 data lines
- DCE / DTE selectable
- Point-to-point, multidrop, and simplex operating modes
- Four wire full duplex; two wire half duplex
- LEDs for easy status monitoring
- Minimum 2000V isolation protection
- Compact size
- Cable distance up to 1200 m
- Supports baud rates up to 115.2kbps



Data Communication

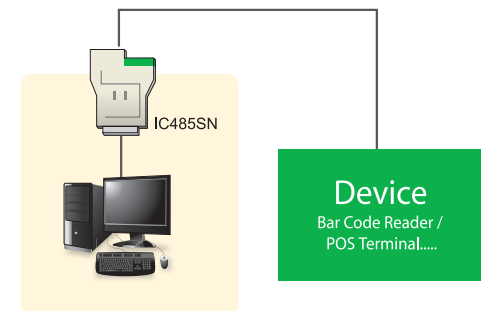


IC164 Non-Powered / High Speed Parallel Data Extender

- Non-powered
- Easy to install and operate
- Compact size
- Cable distance up to 400 m



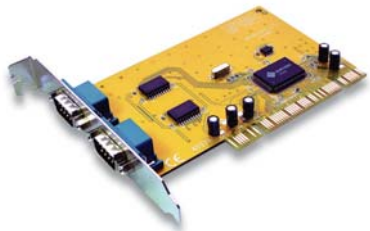
Setup (IC485SN)



Accessories



1. Power Adapters: DC9V x 1 (IC485S, IC485SI, IC485AI)
2. RJ1116 Cable x 1 (IC164)



IC-1025 RS-232 2-Port PCI card

- Fully compliant with PCI Spec. Ver2.2 standard
- Supports both 64-bit & 32-bit PCI Bus and 3.3V & 5V connector keys
- High-speed serial port supports baud rates up to 921.6Kbps
- High-tech 128K FIFO can reduce CPU loading, interrupting and improving system performance dramatically
- Plug and Play, I/O address and IRQ assigned by BIOS
- Works with various types of DB9M / DB25M serial devices
- Ready for the Intel® Itanium® and AMD® Athlon® 64R 64-bit CPU on the Microsoft Windows® XP 64-bit Edition Version 2003 and Windows® Sever 2003 for 64-bit Itanium based or Extended Systems
- Ideal for 56K V.90 external modems, ISDN terminal adapters, PDA, UPS, barcode scanners, and other high-speed serial port devices
- Supports Microsoft Windows NT, 2000, XP, Vista, 2003, DOS, and Linux



IC-1045 RS-232 4-Port PCI card

- Fully compliant with PCI Spec. Ver2.2 standard
- Supports both 64-bit & 32-bit PCI Bus and 3.3V & 5V connector keys
- High-speed serial port supports baud rates up to 921.6Kbps
- High-tech 128K FIFO can reduce CPU loading, interrupting and improving system performance dramatically
- Plug and Play, I/O address and IRQ assigned by BIOS
- Works with various types of DB9M / DB25M serial devices
- Ready for the Intel® Itanium® and AMD® Athlon® 64R 64-bit CPU on the Microsoft Windows® XP 64-bit Edition Version 2003 and Windows® Sever 2003 for 64-bit Itanium based or Extended Systems
- Ideal for 56K V.90 external modems, ISDN terminal adapters, PDA, UPS, barcode scanners, and other high-speed serial port devices
- Supports Microsoft Windows NT, 2000, XP, Vista, 2003, DOS, and Linux



IC-1085 RS-232 8-Port PCI card

- Fully compliant with PCI Spec. Ver2.2 standard
- Supports both 64-bit & 32-bit PCI Bus and 3.3V & 5V connector keys
- High-speed serial port supports baud rates up to 921.6Kbps
- High-tech 128K FIFO can reduce CPU loading, interrupting and improving system performance dramatically
- Plug and Play, I/O address and IRQ assigned by BIOS
- Works with various types of DB9M / DB25M serial devices
- Ready for the Intel® Itanium® and AMD® Athlon® 64R 64-bit CPU on the Microsoft Windows® XP 64-bit Edition Version 2003 and Windows® Sever 2003 for 64-bit Itanium based or Extended Systems
- Ideal for 56K V.90 external modems, ISDN terminal adapters, PDA, UPS, barcode scanners, and other high-speed serial port devices
- Supports Microsoft Windows NT, 2000, XP, Vista, 2003, DOS, and Linux



IC-1045A RS-232 4-Port PCI card

- Fully compliant with PCI Spec. Ver2.2 standard
- Supports both 64-bit & 32-bit PCI Bus and 3.3V & 5V connector keys
- High-speed serial port supports baud rates up to 921.6Kbps
- High-tech 128K FIFO can reduce CPU loading, interrupting and improving system performance dramatically
- Plug and Play, I/O address and IRQ assigned by BIOS
- Works with various types of DB9M / DB25M serial devices
- Assign serial ports Re-Map to ISA address 3F8, 3E8, 2F8, 2E8 under DOS, NT operation system for special devices working on COM1 and COM2
- Ready for the Intel® Itanium® and AMD® Athlon® 64R 64-bit CPU on the Microsoft Windows® XP 64-bit Edition Version 2003 and Windows® Sever 2003 for 64-bit Itanium- based or Extended Systems
- Ideal for 56K V.90 external modems, ISDN terminal adapters, PDA, UPS, barcode scanners, and other high-speed serial port devices
- Supports Microsoft Windows NT, 2000, XP, Vista, 2003, DOS, and Linux

Specifications

Auto Switch

Model No.		AF142	AF241	AS8144B	AS248T	AS248R	
Connectors	Input	3 x DB-25 (F)		5 x DB-25 (F)	1 x DB-25 (M)	2 x 6P4C Jack	
	Output				2 x 6P4C Jack	1 Centronics C-36 (M)	
LEDs	Printer Activity	2 (Red)		4	N/A		
Port Selection	Input	(2 >1) Auto / Manual PC Selection	Auto / Manual PC Selection	(4 >1) Auto / Manual PC Selection		Auto / Manual	
	Output	(1 >2) Software /Manual Printer Selection	N/A	(1 > 4) Software / Manual Printer Selection			
Input Arbitration		First Come First Served (2>1)		First Come First Served	First Come First Served		
File Transfer		Yes (2>1)		Yes	N/A	N/A	
Broadcast		Yes (1>2)		No	Yes (1>4)	N/A	
Timeout Selection		15, 45 Seconds (2>1)		15, 45 Seconds (2>1)	15, 45 Seconds (4>1)	5, 10, 25, 60 Second	
Power Consumption		DC9V, 0.9W (Max.)		DC9V, 0.45W (Max.)		DC9V, 0.02W	
Signal Range		6 m (Max)		6 m (Max.)		366 m (Max.)	
Data Transfer Rate						22 Kbytes/ Sec. (Max.)	
Auto Form feed Selection						Enable / Disable	
Environment	Operating Temp.	0–50°C					
	Storage Temp.	-20–60°C					
	Humidity	0–80% RH, Non-condensing					
Physical	Housing	Plastic					
	Weight	0.15 kg			0.24 kg	47 g	50 g
Properties	Dimensions (L x W x H)	10.20 x 8.50 x 2.60 cm			17.50 x 9.60 x 3.10 cm	8.20 x 5.40 x 2.60 cm	7.60 x 5.30 x 2.10 cm

Model No.		IC485S	IC485SI	IC485SN	IC485AI
Connectors		1 x DB-25 (F)			
		RS-485/RS-422 Four Terminal Block			
		1 x RJ-11 (F)	Grounding Tab	1 x RJ-11 (F)	Grounding Tab
Power		1 x DC Jack			
Switches	SW1	DCE, DTE	DCE, DTE	DCE, DTE	DCE, DTE
	SW2	TxON, Rx ON	TxON, Rx ON	TxON, Rx ON	Segment 1-3: Baud Rate; Segment 4: Reserved; Segment 5&6: Data Format (bits); Segment 7&8: RS-422 / RS-485 Operating Mode
		TxRTS, RxRTS	TxRTS, RxRTS	TxRTS, RxON	
		TxRTS, RxON	TxRTS, RxON	TxDTR/RTS, RxDSR/ON	
LEDs		N/A			
Power Consumption		DC9V 1.35W (Max.)	DC9V 1.8W (Max.)	DC9V 0.9W (Max.)	DC9V 0.9W (Max.)
Signal Range		1200 m (4000') (Max.)			
Baud Rates		Up to 100 Kbps Under 1200 m (4000')			
Environment	Operating Temp.	0–50°C			
	Storage Temp.	–20–60°C			
	Humidity	0–80% RH, Non-condensing			
Physical Properties	Housing	Plastic			
	Weight	60 g			
	Dimensions (L x W x H)	5.40 x 7.45 x 1.85 cm			

Model No.		IC164
Connectors		1 x DB-25 (F) / 1 x C-36 (M)
		1 x RJ-11 (F)
Power		1 x DC Jack
Signal Range		400 m (1300') (Max.)
Switch	SW1	N/A
	SW2	N/A
Data Transfer Rate		21 Kbytes/Sec
Baud Rates		N/A
Power Consumption		DC 9V, 0.4W (Min)
Environment	Operating Temp.	0-50°C
	Storage Temp.	-20-60°C
	Humidity	0-80% RH, Non-condensing
Physical Properties	Housing	Plastic
	Weight	45 g / 50 g
	Dimensions (L x W x H)	8.20 x 5.40 x 2.60 cm / 7.60 x 5.30 x 2.10 cm