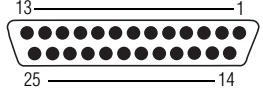
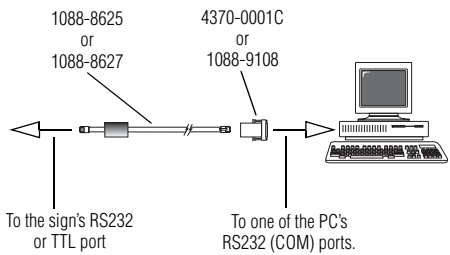
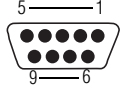


PRIORITY:	Normal
DATE:	October 9, 2002
TITLE:	Network cabling and sign connection pinouts
ECO REFERENCE:	n/a
PRODUCT(S) AFFECTED:	Alpha® signs
SUMMARY:	This document contains a list of common cabling and connectors used to network Alpha® signs. For additional information, see the Networking Alpha Signs manual, pn 9700-0112.

Network cabling pinouts

Part #	Item	Function	Pinout
4370-0001C	25 pin sub-D / 6 pos. RJ11: 		  RJ11 (female) pinouts: 1 = Signal GND 3 = RXD 4 = TXD 25 pin / sub-D (female) pinouts: 2 = TXD 6 = DSR 3 = RXD 7 = Signal GND 4 = RTS 8 = DCD 5 = CTS 20 = DTR
1088-9108	9 pin sub-D / 6 pos. RJ11: 	 To the sign's RS232 or TTL port To one of the PC's RS232 (COM) ports.	  RJ11 (female) pinouts: 1 = Signal GND 3 = RXD 4 = TXD 9 pin / sub-D (female) pinouts: 1 = DCD 5 = Signal GND 2 = RXD 6 = DSR 3 = TXD 7 = RTS 4 = DTR 8 = CTS
1088-8625 & 1088-8627	6-connector RS232 data cable:  1088-8625 is 25 feet long. 1088-8627 is 50 feet long.		  Plug 1 (male) pinouts: 1 2 3 4 5 6 Plug 2 (male) pinouts: 1 2 3 4 5 6

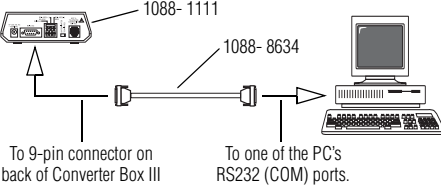
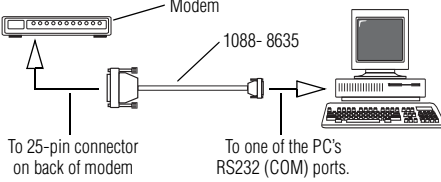
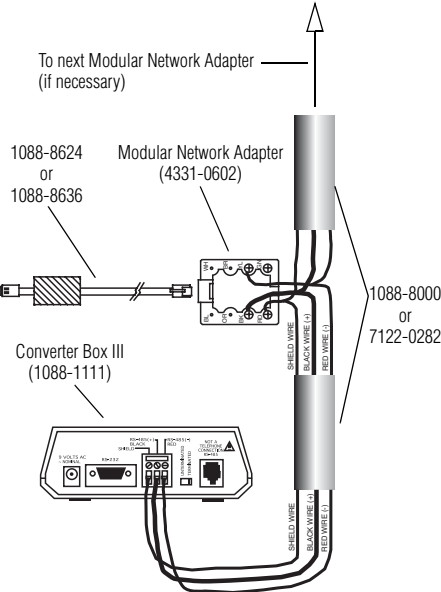
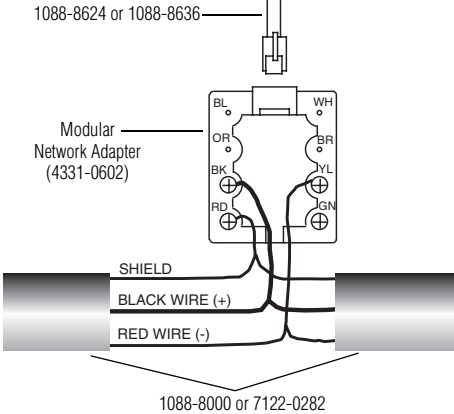
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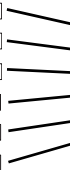
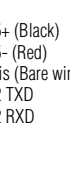
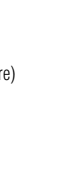
The distinctive trade dress of this product is a trademark claimed by Adaptive Micro Systems, Inc.

Due to continuing product innovation, specifications in this manual are subject to change without notice.

1088-8634	10 foot, 9 pin-to-9 pin type "A9" RS232 cable: 	 To 9-pin connector on back of Converter Box III To one of the PC's RS232 (COM) ports.	<table><tr><th>PIN (female end)</th><th>SIGNAL</th><th>PIN (male end)</th></tr><tr><td>SHIELD</td><td>GND</td><td>SHIELD</td></tr><tr><td>3</td><td>TXD</td><td>3</td></tr><tr><td>2</td><td>RXD</td><td>2</td></tr><tr><td>7</td><td>RTS</td><td>7</td></tr><tr><td>8</td><td>CTS</td><td>8</td></tr><tr><td>6</td><td>DSR</td><td>6</td></tr><tr><td>1</td><td>DCD</td><td>1</td></tr><tr><td>4</td><td>DTR</td><td>4</td></tr><tr><td>5</td><td>SIGNAL GROUND</td><td>5</td></tr><tr><td>9</td><td>RI</td><td>9</td></tr></table>	PIN (female end)	SIGNAL	PIN (male end)	SHIELD	GND	SHIELD	3	TXD	3	2	RXD	2	7	RTS	7	8	CTS	8	6	DSR	6	1	DCD	1	4	DTR	4	5	SIGNAL GROUND	5	9	RI	9
PIN (female end)	SIGNAL	PIN (male end)																																		
SHIELD	GND	SHIELD																																		
3	TXD	3																																		
2	RXD	2																																		
7	RTS	7																																		
8	CTS	8																																		
6	DSR	6																																		
1	DCD	1																																		
4	DTR	4																																		
5	SIGNAL GROUND	5																																		
9	RI	9																																		
1088-8635	10 foot, 25 pin-to-9 pin type "B9" RS232 cable: 	 To 25-pin connector on back of modem To one of the PC's RS232 (COM) ports.	<table><tr><th>PIN (male end)</th><th>SIGNAL</th><th>PIN (male end)</th></tr><tr><td>SHIELD</td><td>GND</td><td>SHIELD</td></tr><tr><td>2</td><td>RXD</td><td>2</td></tr><tr><td>3</td><td>TXD</td><td>3</td></tr><tr><td>7</td><td>SIGNAL GROUND</td><td>5</td></tr><tr><td>8</td><td>DCD</td><td>1</td></tr><tr><td>20</td><td>DTR</td><td>4</td></tr></table>	PIN (male end)	SIGNAL	PIN (male end)	SHIELD	GND	SHIELD	2	RXD	2	3	TXD	3	7	SIGNAL GROUND	5	8	DCD	1	20	DTR	4												
PIN (male end)	SIGNAL	PIN (male end)																																		
SHIELD	GND	SHIELD																																		
2	RXD	2																																		
3	TXD	3																																		
7	SIGNAL GROUND	5																																		
8	DCD	1																																		
20	DTR	4																																		
1088-8624 & 1088-8636	4-connector RS485 data cable:  1088-8624 is 8 feet long. 1088-8636 is 1 foot long.	 To next Modular Network Adapter (if necessary) Modular Network Adapter (4331-0602) 1088-8624 or 1088-8636 Converter Box III (1088-1111) 1088-8000 or 7122-0282	 Plug 1 (male) pinouts: 1, 2, 3, 4 Plug 2 (male) pinouts: 1, 2, 3, 4																																	
4331-0602	Modular Network Adapter 																																			
1088-8000 & 7122-0282	RS485 network cabling:  1088-8000 is a 1000 foot spool. 7122-0282 is a 100 foot spool.		 1088-8624 or 1088-8636 Modular Network Adapter (4331-0602) SHIELD BLACK WIRE (+) RED WIRE (-) 1088-8000 or 7122-0282																																	

Sign connector pinouts

Type	Pinout	Sign type																	
		2.1" AlphaVision™	3.2" AlphaVision™	9000 Series	7000 Series	4000 Series	300 Series	200 Series	AlphaVision™ (Full Matrix)	Beta-Brite®	Big Dot®	Director™	Serial Clock	PPD®	Alpha Ticker™	AlphaVision™ Info Tracker™	AlphaEclipse™	Alpha® Solar	NEMA 4, 4X, 12
RS485	1 6  Pinouts (female): 1 = No connect 2 = RS485 (+) 3 = No connect 4 = No connect 5 = RS485 (-) 6 = No connect	●	●	●	●	●	●	●	●		●	●	●						
	This connector is inside the sign.  RS485(-) RS485(+) SHIELD																●		
	1 6  Pinouts (female): 1 = RS485 (-) 2 = RS485 (+) 3 = Shield 4 = RS485 sync (-) 5 = RS485 sync (+) 6 = No connect													●	●				
RS232 / RS485 / TTL	1 6  Pinouts (female): 1 = GND 2 = RS485 (+) 3 = RXD 4 = TXD 5 = RS485 (-) 6 = +5V (200 mA max)	●	●		●	●	●	●	●		●	●	●	●					●
RS232	1 6  Pinouts (female): 1 = GND 2 = No connect 3 = RXD 4 = TXD (TTL) 5 = No connect 6 = +5V (200 mA max)			●						●									
	This connector is inside the sign.  Fused ISO +5V TXD RXD RS232 GND																	●	
RJ45/Ethernet	1 8  Pinouts (female): 1 = RTS 2 = DTR 3 = TX+ 4 = TX- 5 = RX- 6 = RX+ 7 = DSR 8 = CTS			●											●	●			

Type	Pinout	Sign type																	
		2.1" AlphaVision™	3.2" AlphaVision™	9000 Series	7000 Series	4000 Series	300 Series	200 Series	AlphaVision™ (Full Matrix)	Beta-Brite®	Big Dot®	Director™	Serial Clock	PPD®	Alpha Ticker™	AlphaVision™ Info Tracker™	AlphaEclipse™	Alpha® Solar	NEMA 4, 4X, 12
RJ11	1 4  Pinouts (female): 1 = RS485+ 2 = No connect 3 = No connect 4 = RS485-						●							●					
Terminal Block	 RS485+ (Black)  RS485- (Red)  Chassis (Bare wire)  RS232 TXD  RS232 RXD  GND															●			