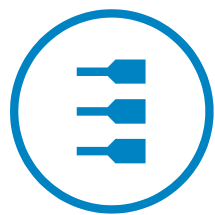
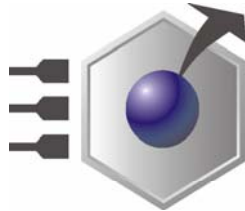


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EuroTech

An0064

ACS-9075: User Manual

Rev. 1.0

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ABOUT THIS MANUAL

This application note contains details of the ACS-9075 USB Adaptor range



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Conventions

The following table lists conventions used throughout this guide.

Icon	Notice Type	Description
	Information note	Important features or instructions
	Warning	Information to alert you to potential damage to a program, system or device or potential personal injury

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Chapter 1 General Overview

Product range

Model Number	Description	Applies to
ACS-9075-00	2 Port USB1.0 Adaptor	CPU-1232
ACS-9075-01	1 Port USB1.0 Adaptor	CPU-1432
ACS-9075-02	4 Port USB1.1 Adaptor	CPU-1450 CPU-1453 CPU-1460 CPU-1463 CPU-1850
ACS-9075-03	6 Port USB2.0 Adaptor	CPU-1451 CPU-1461

These parts can be ordered by contacting the Eurotech sales department:

Telephone: (0039) 0433.485.411
 E-Mail: <mailto:Sales@eurotech.it>

Package contents

Package Name	Contents	Notes	Page #
ACS-9075-00	1x USB 2 Port adaptor		10
	1x 7030000245 interface cable		14
ACS-9075-01	1x USB 2 Port adaptor	Only one port is used with the CPU-1432	10
	1x 7030000082 interface cable		15
ACS-9075-02	2x USB 2 Port adaptor		10
	1x 7030000240 interface cable		17
	1x 7000000160 interface cable		18
ACS-9075-03	1x USB 6 Port adaptor		12
	1x 7000000155 interface cable		19
	1x 7000000160 interface cable		18

Chapter 2 Components in detail

This chapter gives detailed information regarding each individual component supplied.

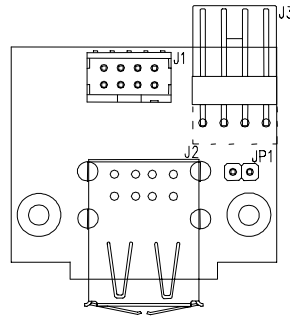
2-Port USB adaptor

Applicable to:

CPU-1232 and CPU-1432

Please note that when used with the CPU-1432, only one port is available.

Layout:



Connector Pins:



Mating face of USB type A female

Connector Description:

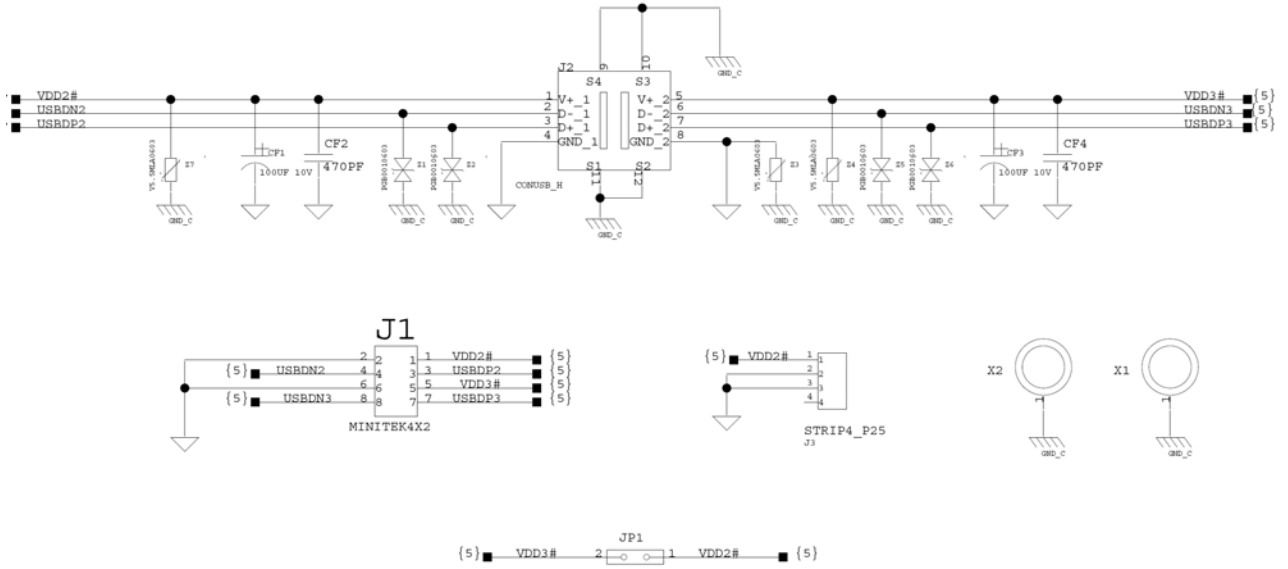
Connector	Use	Type	Pins	Format	Pitch
J1	CPU Interface	Minitek	8	4x2	2.00mm
J2	USB 1 (Bottom) & USB 2 (Top)	2x Female USB Type A	--	--	--
J3	Power Input	SIL Male	4	4x1	2.54mm

Connector Wiring:

Connector	Pin #	Signal
J1	1	VDD 1#
J1	2	Ground
J1	3	USB_DP1
J1	4	USB_DN1
J1	5	VDD 2#
J1	6	Ground
J1	7	USB_DP2
J1	8	USB_DN2

Connector	Pin #	Signal
J3	1	VDD
J3	2	Ground
J3	3	Ground
J3	4	Not Connected

Schematic Diagram:

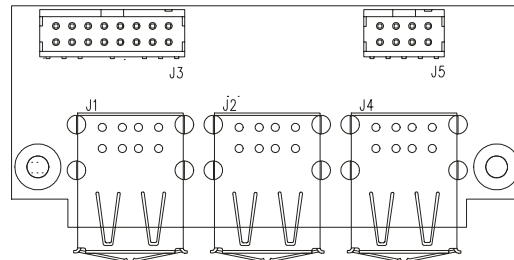


6-Port USB adaptor

Applicable to:

CPU-1450, CPU-1451, CPU-1453, CPU-1460, CPU-1461, CPU-1463 and CPU-1850

Layout:



Connector Pins:



Mating face of USB type A female

Connector Description:

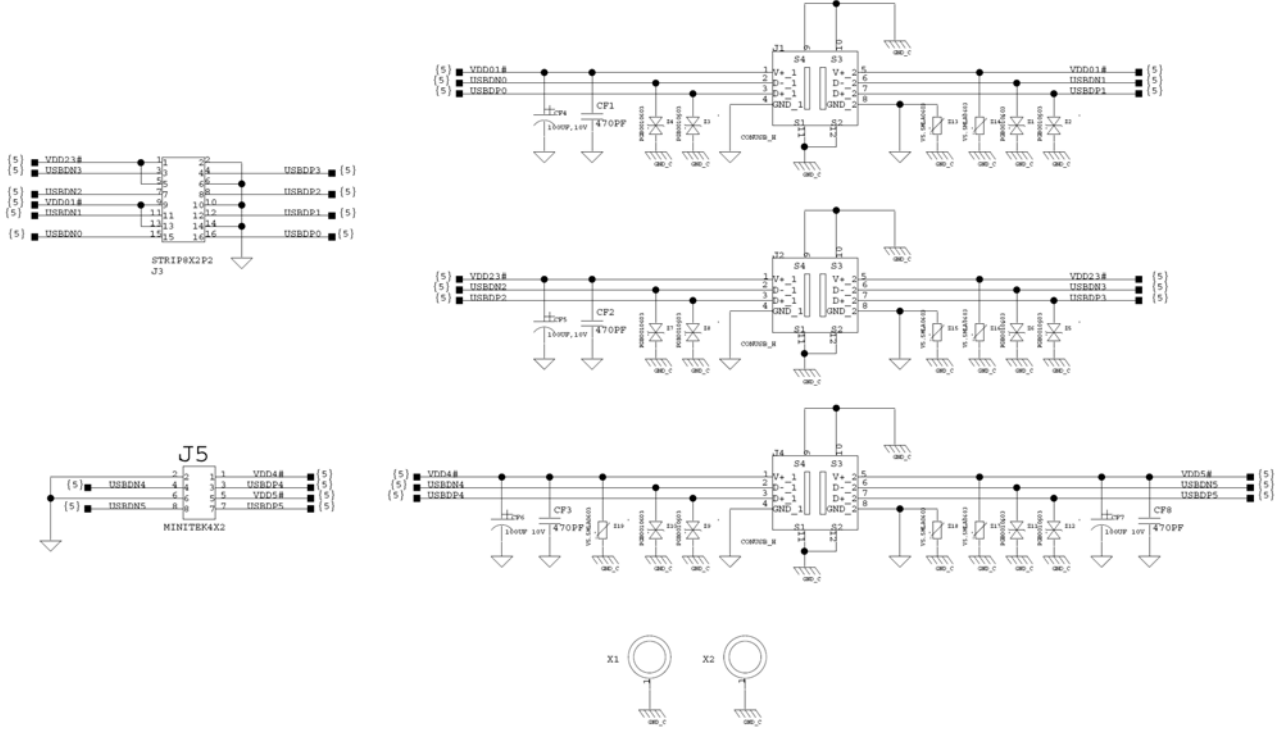
Connector	Use	Type	Pins	Format	Pitch
J1	USB 1 (Bottom) & USB 2 (Top)	2x Female USB Type A	--	--	--
J2	USB 3 (Bottom) & USB 4 (Top)	2x Female USB Type A	--	--	--
J3	CPU Interface USB 1, 2, 3 & 4	Minitek	16	8x2	2.00mm
J4	USB 3 (Bottom) & USB 4 (Top)	2x Female USB Type A	--	--	--
J5	CPU Interface USB 5 & 6	Minitek	8	4x2	2.00mm

Connector Wiring:

Connector	Pin #	Signal
J3	1 & 5	USB_3 & USB_4 VDD
J3	2, 6, 10 & 14	Ground
J3	3	USB_4-
J3	4	USB_4+
J3	7	USB_3-
J3	8	USB_3+
J3	9 & 13	USB_1 & USB_2 VDD
J3	11	USB_2-
J3	12	USB_2+
J3	15	USB_1-
J3	16	USB_1+

Connector	Pin #	Signal
J5	1	USB_5 VDD
J5	2, 6	Ground
J5	3	USB_5-
J5	4	USB_5+
J5	5	USB_6 VDD
J5	7	USB_6-
J5	8	USB_6+

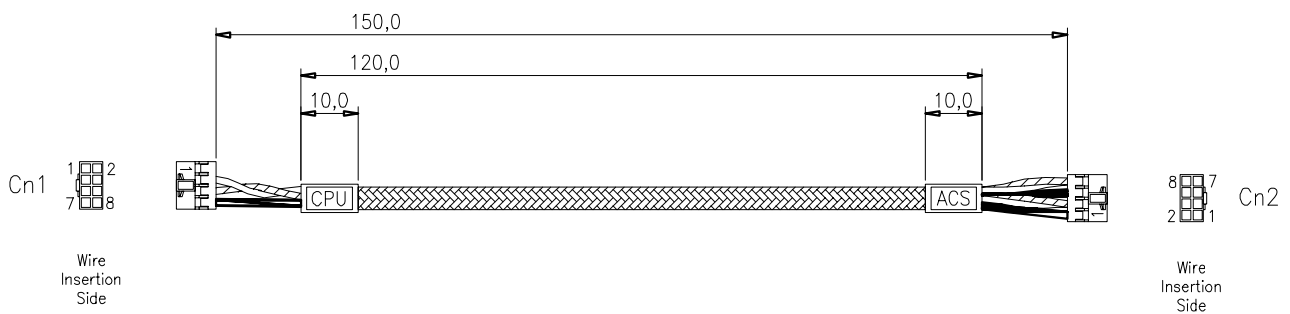
Schematic Diagram:



703000245: Interface cable

Applicable to:
CPU-1232

Diagram:



Connector Details:

Connector	Type	Pins	Format	Pitch
Cn1	Minitek	8	4x2	2.00mm
Cn2	Minitek	8	4x2	2.00mm

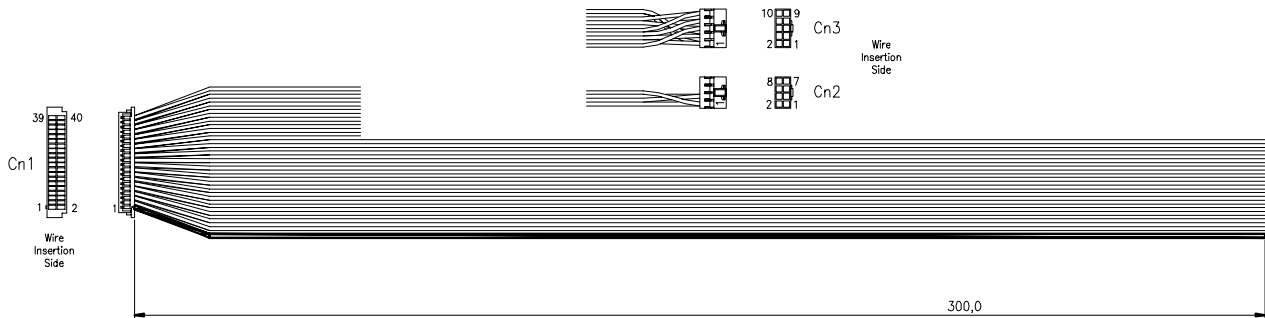
Wiring Information:

Connector	Pin #	To Connector	Pin #	Length Cm	Size AWG	Colour	Signal	Notes
Cn1	1	Cn2						
Cn1	2	Cn2						
Cn1	3	Cn2	4	15	28	White	USB_P0N	Twisted with USB_P0P
Cn1	4	Cn2	8	15	28	White	USB_P1N	Twisted with USB_P1P
Cn1	5	Cn2	3	15	26	Green	USB_P0P	Twisted with USB_P0N
Cn1	6	Cn2	7	15	26	Green	USB_P1P	Twisted with USB_P1N
Cn1	7	Cn2	2	15	28	Black	Ground	
Cn1	8	Cn2	6	15	28	Black	Ground	

7030000082: Interface cable

Applicable to:
CPU-1432

Diagram:



Connector Details:

Connector	Type	Pins	Format	Pitch
Cn1	Hirose	40	20x2	1.25mm
Cn2	Minitex	10	5x2	2.00mm
Cn3	Minitex	8	4x2	2.00mm

Wiring information is on the following page ...

Wiring Information:

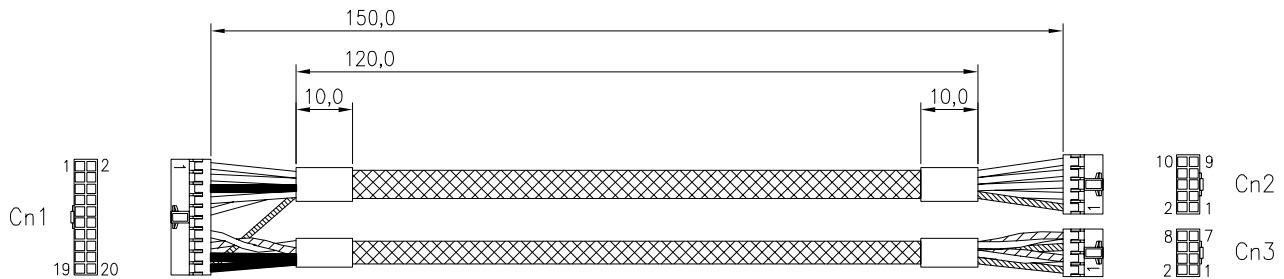
Connector	Pin #	To Connector	Pin #	Length CM	Size AWG	Signal
Cn1	1	No Connector	--	30	28	FP GND
Cn1	2	No Connector	--	30	28	FP CLK
Cn1	3	No Connector	--	30	28	FP GND
Cn1	4	No Connector	--	30	28	FP17 R5
Cn1	5	No Connector	--	30	28	FP DISPEN
Cn1	6	No Connector	--	30	28	FP16 R4
Cn1	7	No Connector	--	30	28	FP15 R3
Cn1	8	No Connector	--	30	28	FP14 R2
Cn1	9	No Connector	--	30	28	FP13 R1
Cn1	10	No Connector	--	30	28	FP12 R0/GND
Cn1	11	No Connector	--	30	28	FP5 B5
Cn1	12	No Connector	--	30	28	FP VDDEN
Cn1	13	No Connector	--	30	28	FP4 B4
Cn1	14	No Connector	--	30	28	FP3 B3
Cn1	15	No Connector	--	30	28	FP2 B2
Cn1	16	No Connector	--	30	28	FP1 B1
Cn1	17	No Connector	--	30	28	FP0 B0/GND
Cn1	18	No Connector	--	30	28	FP11 G5
Cn1	19	No Connector	--	30	28	FP BKLEN
Cn1	20	No Connector	--	30	28	FP10 G4
Cn1	21	No Connector	--	30	28	FP9 G3
Cn1	22	No Connector	--	30	28	FP8 G2
Cn1	23	No Connector	--	30	28	FP7 G1
Cn1	24	No Connector	--	30	28	FP6 G0/GND
Cn1	25	No Connector	--	30	28	FP VSYNC
Cn1	26	No Connector	--	30	28	FP HSYNC
Cn1	27	Cn2	2	30	28	USB GND
Cn1	28	Cn2	3	30	28	USB DP
Cn1	29	Cn2	4	30	28	USB DN
Cn1	30	Cn2	1	30	28	USB VDD
Cn1	31	Cn3	5	30	28	PC BEEP
Cn1	32	Cn3	1	30	28	AC97 CDD
Cn1	33	Cn3	3	30	28	SDATA OUT
Cn1	34	Cn3	7	30	28	RST DRV
Cn1	35	Cn3	9	30	28	SDATA IN
Cn1	36	Cn3	8	30	28	SYNC
Cn1	37	Cn3	6	30	28	AC97 GND
Cn1	38	Cn3	10	30	28	AC97 CLK
Cn1	39	Cn3	2	30	28	AC97 GND
Cn1	40	Cn3	4	30	28	BIT CLK

703000240: Interface cable

Applicable to:

CPU-1450, CPU-1453, CPU-1460, CPU-1463 and CPU-1850

Diagram:



Connector Details:

Connector	Type	Pins	Format	Pitch
Cn1	Minitek	20	10x2	2.00mm
Cn2	Minitek	10	5x2	2.00mm
Cn3	Minitek	8	4x2	2.00mm

Wiring Information:

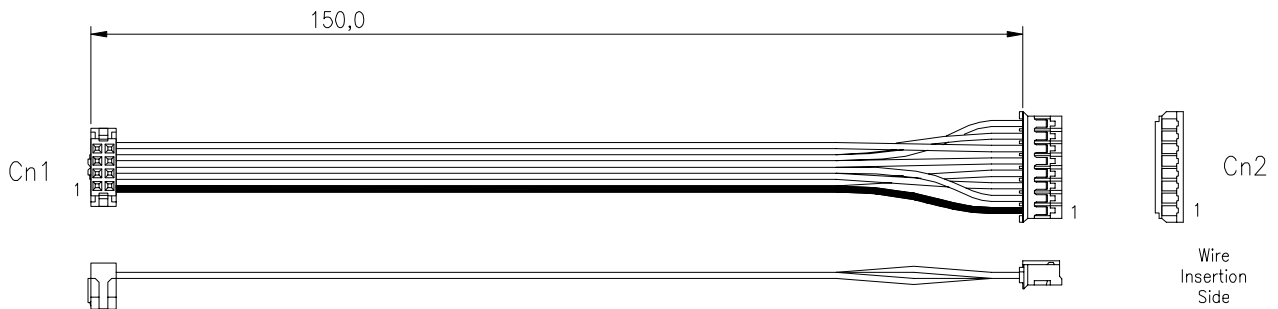
Connector	Pin #	To Connector	Pin #	Length Cm	Size AWG	Colour	Signal	Notes
Cn1	1	Cn2	5	15	28	Grey	SPKR	
Cn1	2	NC	--	--	--	--	SDIN1	
Cn1	3	Cn2	3	15	28	Grey	SDOUT	
Cn1	4	NC	--	--	--	--	CDC_EN#	
Cn1	5	Cn2	2	15	26	Black	Ground	
Cn1	6	Cn2	6	15	26	Black	Ground	
Cn1	7	Cn2	9	15	28	Grey	SDIN0	
Cn1	8	Cn2	4	15	28	Grey	BITCLK	
Cn1	9	Cn2	7	15	28	Grey	RST	
Cn1	10	Cn2	8	15	28	Grey	SYNC	
Cn1	11	NC	--	--	--	--	Ground	
Cn1	12	NC	--	--	--	--	USB_OC1#	
Cn1	13	Cn3	4	15	28	White	USB_P0N	Twisted with USB_P0P
Cn1	14	Cn3	8	15	28	White	USB_P1N	Twisted with USB_P1P
Cn1	15	Cn3	3	15	28	Green	USB_P0P	Twisted with USB_P0N
Cn1	16	Cn3	7	15	28	Green	USB_P1P	Twisted with USB_P1N
Cn1	17	Cn3	2	15	26	Black	Ground	
Cn1	18	Cn3	1, 5	15	26	Red	+5V	Double wire
Cn1	19	Cn3	6	15	26	Black	Ground	
Cn1	20	Cn2	1	15	26	Red	+5V	

7000000160: Interface cable

Applicable to:

CPU-1450, CPU-1451, CPU-1453, CPU-1460, CPU-1461, CPU-1463 and CPU-1850

Diagram:



Connector Details:

Connector	Type	Pins	Format	Pitch
Cn1	Minitek IDC	8	4x2	2.00mm
Cn2	JST PH	8	4x2	2.00mm

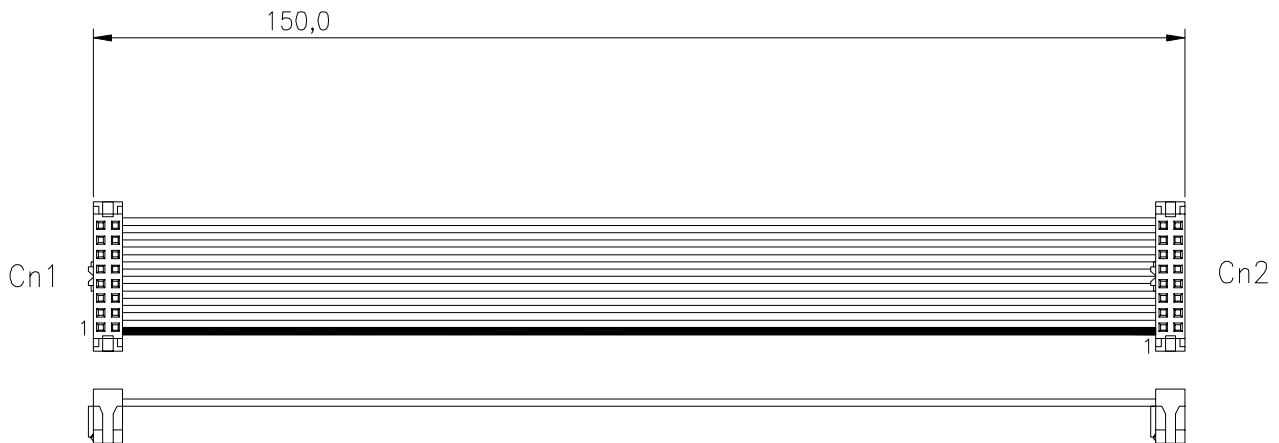
Wiring Information:

Connector	Pin #	To Connector	Pin #	Length Cm	Size AWG	Signal	Notes
Cn1	1	Cn2	1	15	28	+5V	
Cn1	2	Cn2	4	15	28	Ground	
Cn1	3	Cn2	3	15	28	USB_P0P	Twisted with USB_P0N
Cn1	4	Cn2	2	15	28	USB_P0N	Twisted with USB_P0P
Cn1	5	Cn2	5	15	28	+5V	
Cn1	6	Cn2	8	15	28	Ground	
Cn1	7	Cn2	7	15	28	USB_P1P	Twisted with USB_P1N
Cn1	8	Cn2	6	15	28	USB_P1N	Twisted with USB_P1P

700000155: Interface cable

Applicable to:
CPU-1451 and CPU-1461

Diagram:



Connector Details:

Connector	Type	Pins	Format	Pitch
Cn1	Minitek IDC	16	8x2	2.00mm
Cn2	Minitek IDC	16	8x2	2.00mm

Wiring Information:

Connector	Pin #	To Connector	Pin #	Length Cm	Size AWG	Signal
Cn1	1	Cn2	1	15	28	VDD
Cn1	2	Cn2	2	15	28	Ground
Cn1	3	Cn2	3	15	28	USB_4-
Cn1	4	Cn2	4	15	28	USB_4+
Cn1	5	Cn2	5	15	28	VDD_USB_3,4
Cn1	6	Cn2	6	15	28	Ground
Cn1	7	Cn2	7	15	28	USB_3-
Cn1	8	Cn2	8	15	28	USB_3+
Cn1	9	Cn2	9	15	28	VDD
Cn1	10	Cn2	10	15	28	Ground
Cn1	11	Cn2	11	15	28	USB_2-
Cn1	12	Cn2	12	15	28	USB_2+
Cn1	13	Cn2	13	15	28	VDD
Cn1	14	Cn2	14	15	28	Ground
Cn1	15	Cn2	15	15	28	USB_1-
Cn1	16	Cn2	16	15	28	USB_1+

Related Documents

For further information refer to the User Manual for the CPU that the adaptor is intended to be used with.

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