

# ***An0066***

## **Adaptor Reference Guide**

Rev. 2.1 - October 2010 - ETH\_An0066\_USM21-2010-10

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## Warranty

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## WEEE

The information below is issued in compliance with the regulations as set out in the 2002/96/CE directive, subsequently superseded by 2003/108/CE. It refers electrical and electronic equipment and the waste management of such products. When disposing of a device, including all of its components, subassemblies and materials that are an integral part of the product, you should consider the WEEE directive.



This symbol has been attached to the equipment or, if this has not been possible, on the packaging, instruction literature and/or the guarantee sheet. By using this symbol, it states that the device has been marketed after August 13th 2005, and implies that you must separate all of its components when possible, and dispose of them in accordance with local waste disposal legislations.

Because of the substances present in the equipment, improper use or disposal of the refuse can cause damage to human health and to the environment.

With reference to WEEE, it is compulsory not dispose of the equipment with normal urban refuse, arrangements should be instigated for separate collection and disposal.

Contact your local waste collection body for more detailed recycling information.

In case of illicit disposal, sanctions will be levied on transgressors.

## RoHS

This device, including all its components, subassemblies and the consumable materials that are an integral part of the product, has been manufactured in compliance with the European directive 2002/95/EC known as the RoHS directive (Restrictions on the use of certain Hazardous Substances). This directive targets the reduction of certain hazardous substances previously used in electrical and electronic equipment (EEE).

## Related Documentation

For further information please refer to the appropriate User manual for the CPU or Peripheral that you are using the adaptor with.

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ITALY

# Introduction

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## Manual Conventions

The following conventions are used throughout this manual.

### The “Mode” of the register:

Symbol / Text	Definition
<b>RW</b>	Readable and Writable register
<b>RO</b>	Read only register
<b>W</b>	Meaning of the register when written
<b>R</b>	Meaning of the register when read

### Hexadecimal numbering:

Hexadecimal numbers are indicated with an “h” suffix (for example: 11Ch)

### Symbols and Text used in Pin-out tables:

Symbol / Text	Definition
◀	Input
▶	Output
◀▶	Bi-Directional
—	Passive
<b>Module specific</b>	Dependent on module installed
<b>NC</b>	Not Connected
<b>Reserved</b>	Use reserved to Eurotech, must remain unconnected
<b>#</b>	Active low signal

### Warnings and Important Notices:

Within this manual you will find the following tables, please ensure that you read and understand these as they are intended to highlight potential risks or precautions that should be taken.



#### Warnings:

Information to alert you to potential hazards:  
Potential personal injury or damage to a system, device or program.



#### Information notes:

Indicates important features or instructions that should be observed

## Technical Assistance

If you have any technical questions or if you cannot isolate a problem with your device, please e-mail the Eurotech Technical Support Team: email: [techsupp@eurotech.it](mailto:techsupp@eurotech.it)

## RMA Requests

Before returning any Eurotech product, for any reason, you must e-mail the Eurotech Technical Support Team on the above email address, giving the following information; you will then be sent an RMA number (Returned Material Authorization) for the return of the material:

Model number (see Figure 1)  
Serial number (see Figure 1)  
Detailed fault description  
Company Details  
Contact details

## Transportation

When transporting any module or system, for any reason, it should be packed using anti-static material and placed in a sturdy box with enough packing material to adequately cushion it.

**Warnings:**

Any product returned to Eurotech that is damaged due to inappropriate packaging will not be covered by the warranty!

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## Board labelling

On the external side of the ISA Bus connector, you will find several labels displaying the following:

- Batch Number
  - Serial Number
  - Model Number
  - Hardware Revision
- 

**Note:**

The actual location of these labels may vary depending on the product purchased. For example: If no ISA bus is present, the PCI bus may be used instead. However, the labelling formats will remain the same.

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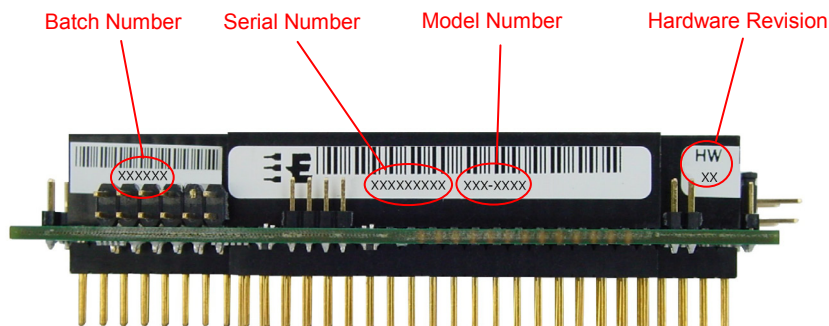


Figure 1. Board label locations

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## **Chapter 1 Adaptor kits**

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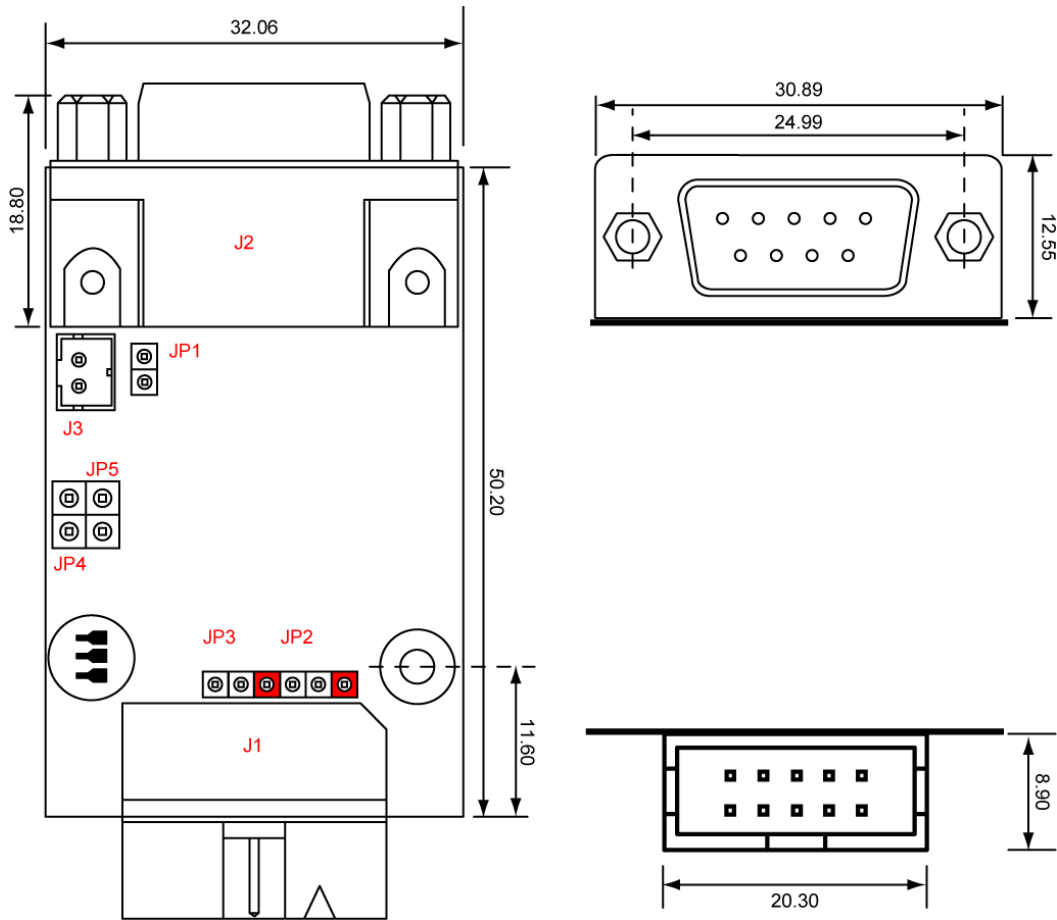
## ACS-9094: RS485 CAN Interface Module

### ACS-9094-00

Eurotech Part #	Qty.	CPU	Conn.	Type	Description	RoHS	Page
<b>ACS-9094</b>	1	ALL		Adaptor	CAN Interface Module	✓	9
<b>7000000033L</b>	1	CPU-1213 COM-1274	J7 J15	Cable	Interconnection Cable	✓	26



**ACS-9094:**  
**Technical Details**



**Connectors**

Connector	Use	Type	Pins	Format	Pitch (mm)
J1	Module Interface	IDC	10	5x2	2.54
J2	Module I/O	DB9	9	DB9	--
J3	Power Supply	SIL	2	2x1	2.00

**Jumpers**

Jumper	Use	Options	Type	Default
JP1	Termination Resistor	Closed: 120 Ohm Inserted Open: None	2 Pin	Open
JP2	Controller Selector	1-2: CAN Controller 1 2-3: CAN Controller 2	3 Pin	1-2
JP3	Controller Selector	1-2: CAN Controller 1 2-3: CAN Controller 2	3 Pin	1-2
JP4	Connect +12V from CPU Module to Pin 9 of J2	Open: Not Connected Closed: Connected	2 Pin	Open
JP5	Connect Ground from CPU Module to the CAN Ground	Open: Not Connected Closed: Connected	2 Pin	Open

**J1 Pinout**

Pin	Signal	Pin	Signal
1	Ground	2	Vdd
3	Ground	4	CAN 1 Transmit
5	Ground	6	CAN 2 Transmit
7	Ground	8	CAN 1 Receive
9	+12 Volt	10	CAN 2 Receive

**J2 Pinout**

Pin #	Signal
1	Not Connected
2	CAN – Low
3	CAN – High
4	Not Connected
5	Not Connected
6	Ground
7	Ground
8	Not Connected
9	Ext Voltage

**J3 Pinout**

Pin #	Signal
1	Eternal Power
2	CAN Ground

## ACS-9095: 10/100MB Ethernet Adaptor

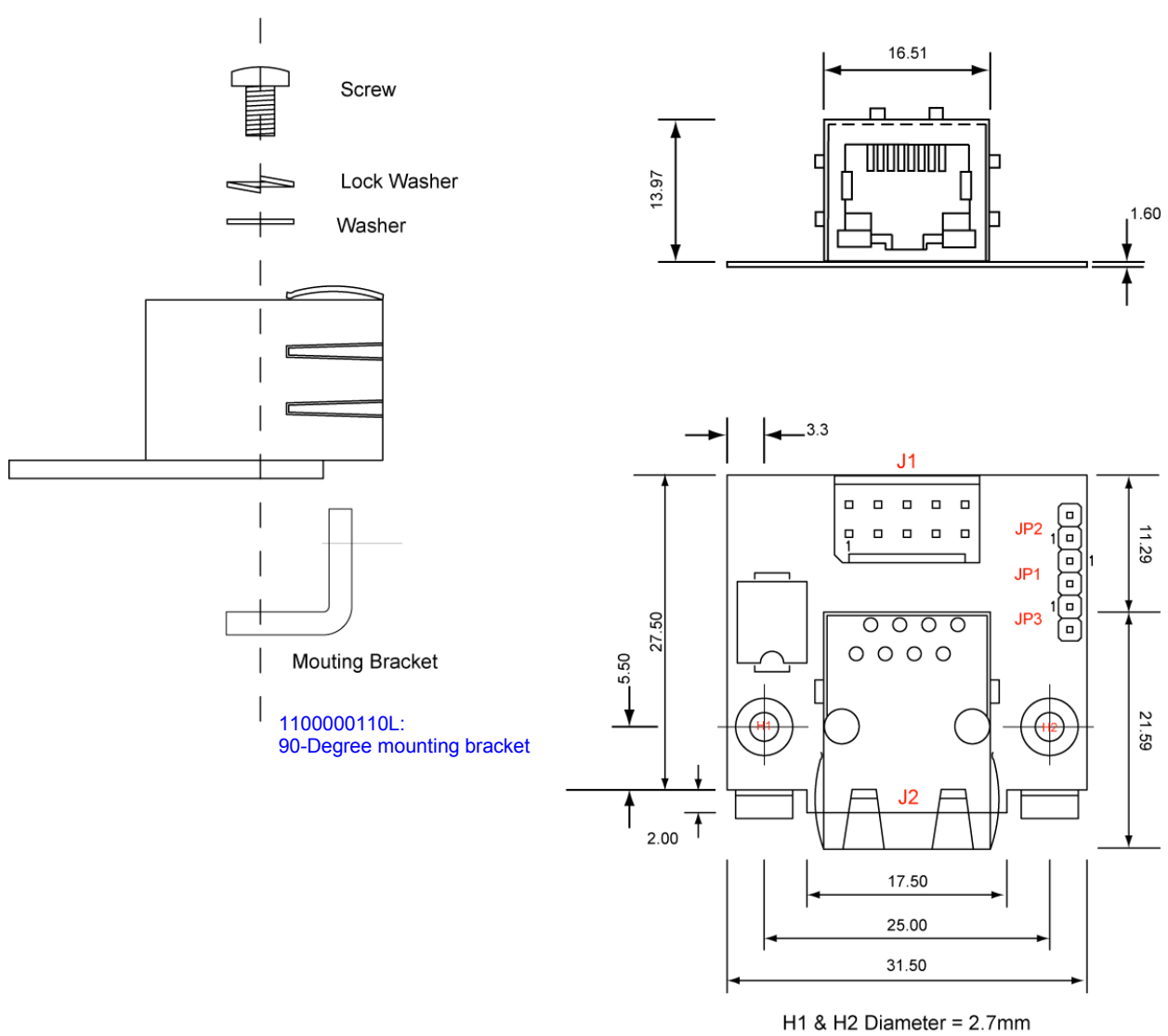
### ACS-9095-05

Eurotech Part #	Qty.	CPU	Conn.	Type	Description	RoHS	Page
ACS-9095	1	ALL		Adaptor	10/100MB RJ45 Ethernet	✓	12
1100000110L	2	ALL		Bracket	Mounting assembly	✓	40
7000000091L	1	CPU-1213	J8	Cable	CPU to ACS-9095	✓	27
7030000163L	1	CPU-1421 CPU-1452 CPU-1454 CPU-1462 CPU-1454	J12 J20 J20 J20 J20	Cable	CPU to ACS-9095	✓	33

### ACS-9095-07

Eurotech Part #	Qty.	CPU	Conn.	Type	Description	RoHS	Page
ACS-9095	1	ALL		Adaptor	10/100Mb RJ45 Ethernet	✓	12
1100000110L	2	ALL		Bracket	Mounting assembly	✓	40
7030000083L	1	CPU-1421	J5	Cable	CPU to ACS-9095	✓	31

### ACS-9095: Technical Details



#### Connectors

Connector	Use	Type	Pins	Format	Pitch (mm)
J1	CPU Interface	Minitek	10	5x2	2.54
J2	Female RJ45	RJ45	8	8x1	--

#### Jumpers

Jumper	Use	Options	Type	Pins	Default
JP1 ~ 3	Controller type	<u>Open / Open / Open</u> Intel  <u>Closed / Closed / Open</u> Realtek 8139D / 8139DL  <u>Closed / Closed / Closed</u> Realtek 8019AS / 8139C	2.00mm Jumpers	2	<u>Closed / Closed / Closed</u> Realtek 8019AS / 8139C

**Default Jumper positions for JP1, JP2 and JP3**

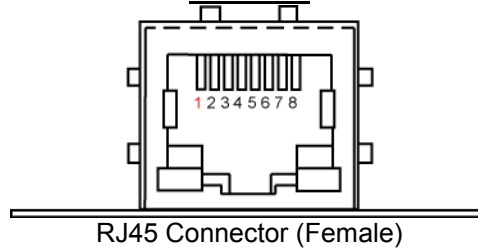
CPU Model Number	Connector	Ethernet Chipset	JP1	JP2	JP3
CPU-1213	J8	Realtek 8019AS	Closed	Closed	Closed
CPU-1421	J12	Realtek 8139C	Closed	Closed	Closed
CPU-1421	J5	Realtek 8139C	Closed	Closed	Closed
CPU-1452	J20	Intel 82562ET	Open	Open	Open
CPU-1454	J20	Intel 82562ET	Open	Open	Open
CPU-1462	J20	Intel 82562ET	Open	Open	Open
CPU-1454	J20	Intel 82562ET	Open	Open	Open

**J1 Pinout**

Pin	Signal	Pin	Signal
1	Vcc	2	Activity LED
3	+ Receive Data	4	- Receive Data
5	Link LED	6	Ground
7	Not Connected	8	Ground
9	+ Transmit Data	10	- Transmit Data

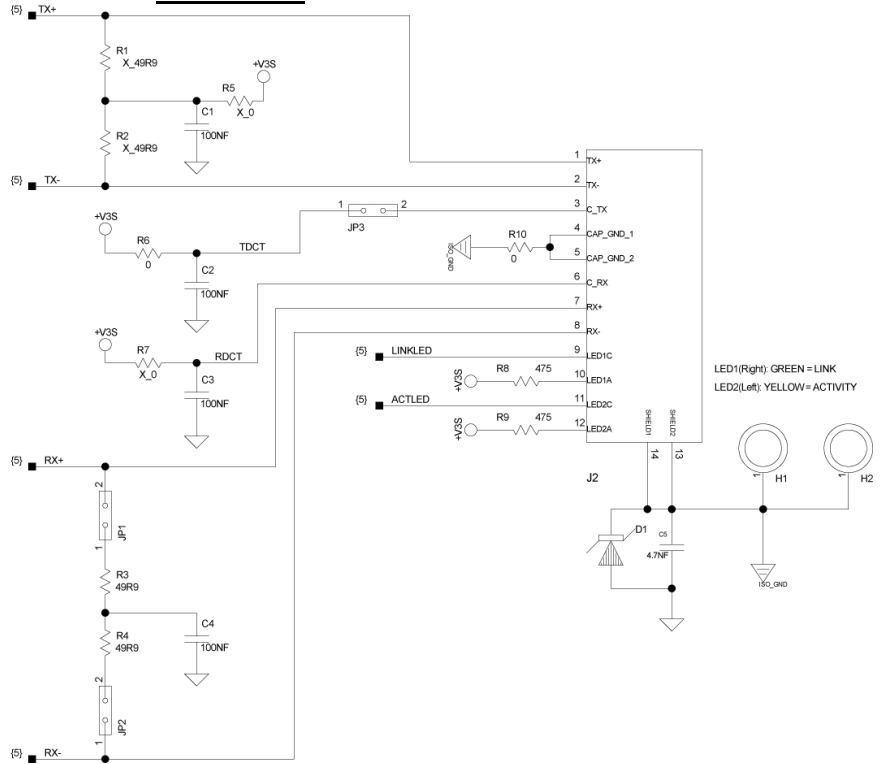
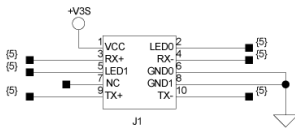
**Notes:**

Vcc on pin #1 is an output from the CPU module and should only be used LED anode supply.  
The Value of Vcc on pin #1 can vary from 5V to 3.3V depending on the CPU module being used.

**J2 Pinout**

Pin #	Signal
1	+ Transmit Data
2	- Transmit Data
3	+ Receive Data
4	Not Connected
5	Not Connected
6	- Receive Data
7	Not Connected
8	Not Connected

**Schematics**



**Note on C1 and C3:**

These capacitors are useful for EMI compliance.

Excessive capacitance can slow the 100 Mbps rise and fall times.

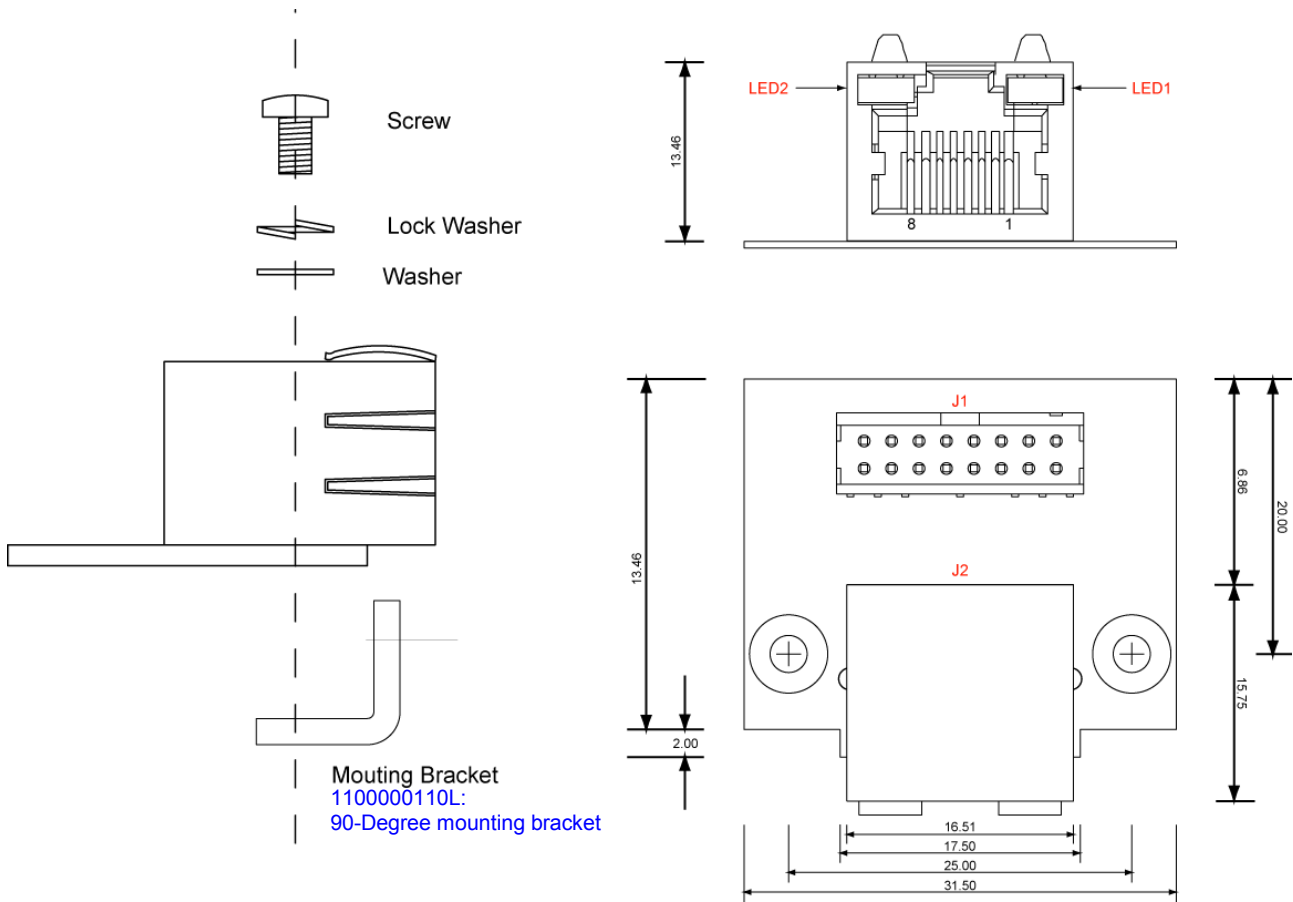
Unless there is some overshoot in the 100 Mbps mode, these caps are not necessary.

## ACS-9096: Gigabit Ethernet Adaptor

### ACS-9096-00

<b>Eurotech Part #</b>	<b>Qty.</b>	<b>CPU</b>	<b>Conn.</b>	<b>Type</b>	<b>Description</b>	<b>RoHS</b>	<b>Page</b>
<b>ACS-9096</b>	1	ALL		Adaptor	Gigabit Ethernet	✓	16
<b>1100000110L</b>	2	ALL		Bracket	Mounting assembly	✓	40
<b>7000000155L</b>	1	CPU-1454	J16	Cable	CPU to Gigabit Ethernet	✓	28

### ACS-9096: Technical Details



#### Connectors

Connector	Use	Type	Pins	Format	Pitch (mm)
J1	CPU Interface	Minitek	16	8x2	2.00
J2	RJ45 Connector	RJ45	8	RJ45	--

#### LED Activity Definitions

LED	Position	Colour	Use	Status
1	Right	Yellow / Green	Link	Off: Link 10 Green: Link 100 Yellow: Link 1000
2	Left	Green	Activity	On: Link Up Blinking: Activity

#### J1 Pinout

Pin	Signal	Pin	Signal
1	MX-1	2	MX+1
3	MX-2	4	MX+2
5	MX-3	6	MX+3
7	MX-4	8	MX+4
9	Ground	10	Not Connected
11	Ground	12	Not Connected
13	Link LED 0	14	Activity LED1
15	Link 100 LED2	16	Link 1000 LED3



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<b>J2 Pinout</b>	
<b>Pin</b>	<b>Signal</b>
<b>1</b>	+ Bidirectional Data A
<b>2</b>	- Bidirectional Data A
<b>3</b>	+ Bidirectional Data B
<b>4</b>	+ Bidirectional Data C
<b>5</b>	- Bidirectional Data C
<b>6</b>	- Bidirectional Data B
<b>7</b>	+ Bidirectional Data D
<b>8</b>	- Bidirectional Data D

## ACS-9092: USB Adaptor

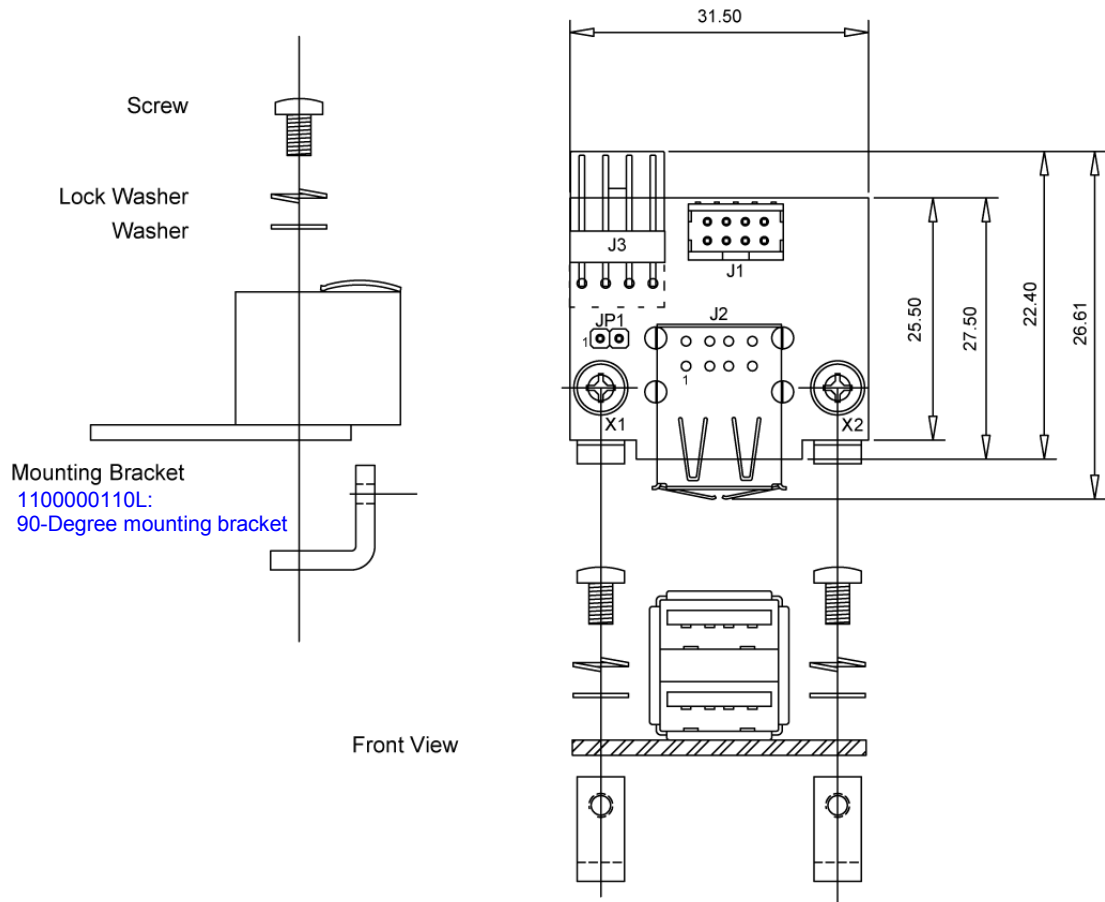
### ACS-9092-00

Eurotech Part #	Qty.	CPU	Conn.	Type	Description	RoHS	Page
<b>ACS-9092</b>	2	ALL		Adaptor	2-Port USB adaptor	✓	19
<b>1100000110L</b>	4	ALL		Bracket	Mounting assembly	✓	40
<b>7030000240L</b>	1	CPU-1452 CPU-1454 CPU-1462 CPU-1454	J14 J14 J14 J14	Cable	CPU Interface	✓	34
<b>7000000160L</b>	1	CPU-1452 CPU-1454 CPU-1462 CPU-1464	J7 J7 J7 J7	Cable	CPU Interface	✓	29

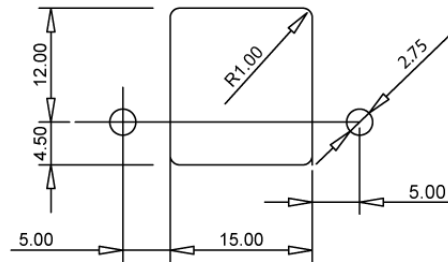
### ACS-9092-02

Eurotech Part #	Qty.	CPU	Conn.	Type	Description	RoHS	Page
<b>ACS-9092</b>	2	ALL		Adaptor	2-Port USB adaptor	✓	19
<b>1100000110L</b>	4	ALL		Bracket	Mounting assembly	✓	40
<b>7030000246L</b>	1	CPU-1452	J16	Cable	CPU Interface	✓	36

### ACS-9092: Technical Details



Front Mounting locations



#### Connectors

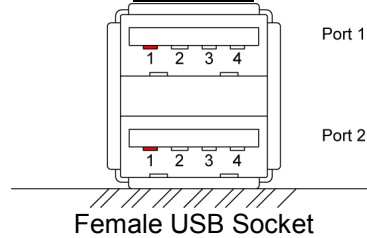
Connector	Use	Type	Pins	Format	Pitch (mm)
J1	CPU Interface	Male Minitek	8	4x2	2.00
J2	2x USB Ports	USB Type "A"	4	--	--
J3	Power Input	Male SIL	4	4x1	2.50

#### Jumpers

Jumper	Use	Qty Pins	Default
JP1	Connects VDD1# to VDD2#	2	Closed

**J1 Pinout**

Pin	Use	Signal	Pin	Use	Signal
2	USB 1	Ground	1	USB 1	VDD1#
4	USB 1	- Data	3	USB 1	+ Data
6	USB 2	Ground	5	USB 2	VDD2#
8	USB 2	- Data	7	USB 2	+ Data

**J2 Pinout**

Port	USB Pin	PCB Pin	Use	Signal
Upper	1	1	USB 1	VDD
Upper	2	2	USB 1	- Data
Upper	3	3	USB 1	+ Data
Upper	4	4	USB 1	Ground
Lower	1	5	USB 2	VDD
Lower	2	6	USB 2	- Data
Lower	3	7	USB 2	+ Data
Lower	4	8	USB 2	Ground

**Note:** Port 1 is the Upper port and Port 2 is the Lower port

**J3 Pinout**

Pin	Use	Signal
1	External Power	VDD1#
2	External Power	Ground
3	External Power	Ground
4	Not Connected	

## ACS-9093: Audio CODEC adaptor

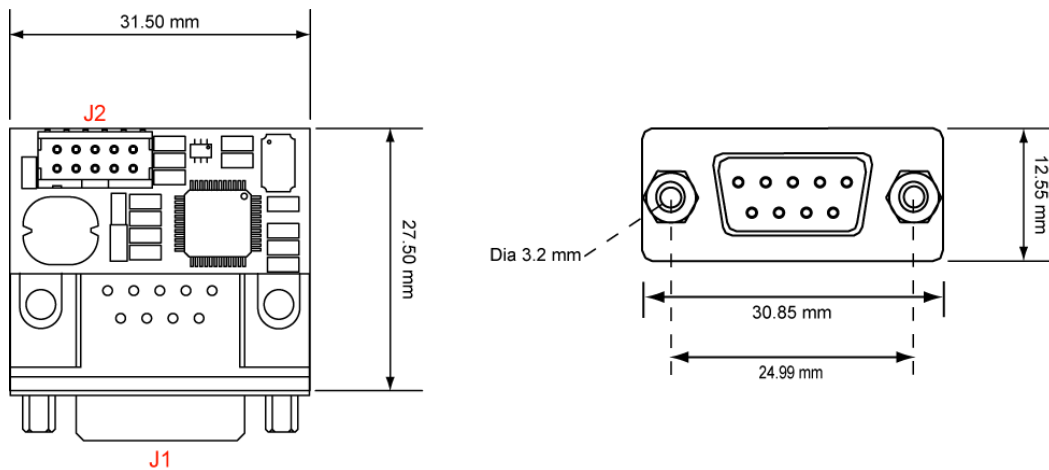
### ACS-9093-00

Eurotech Part #	Qty.	CPU	Conn.	Type	Description	RoHS	Page
ACS-9093	1	ALL		Adaptor	AC97 Codec	✓	22
7030000300L	1	Adaptor	J1	Cable	Module to 3x 3.5mm Jacks	✓	37

### ACS-9093-01

Eurotech Part #	Qty.	CPU	Conn.	Type	Description	RoHS	Page
ACS-9093	1	ALL		Adaptor	AC97 Codec	✓	22
7030000240L	1	CPU-145x CPU-146x	J14 J14	Cable	CPU – Module	✓	34
7030000300L	1	Adaptor	J1	Cable	Module to 3x 3.5mm Jacks	✓	37

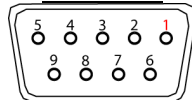
## ACS-9093: Technical Details



### Connectors

Connector	Use	Type	Pins	Format	Pitch (mm)
J1	CPU Interface	Male Minitek	8	4x2	2.00
J2	2x USB Ports	USB Type "A"	4	--	--

### J1 Pinout



DB9 Connector (Female)

Pin	Signal	Pin	Signal	Pin	Signal
1	Line Out Left	4	Line In Left	7	Microphone In
2	Ground	5	Ground	8	Ground
3	Vref Microphone	6	Line Out Right	9	Line In Right

### J2 Pinout

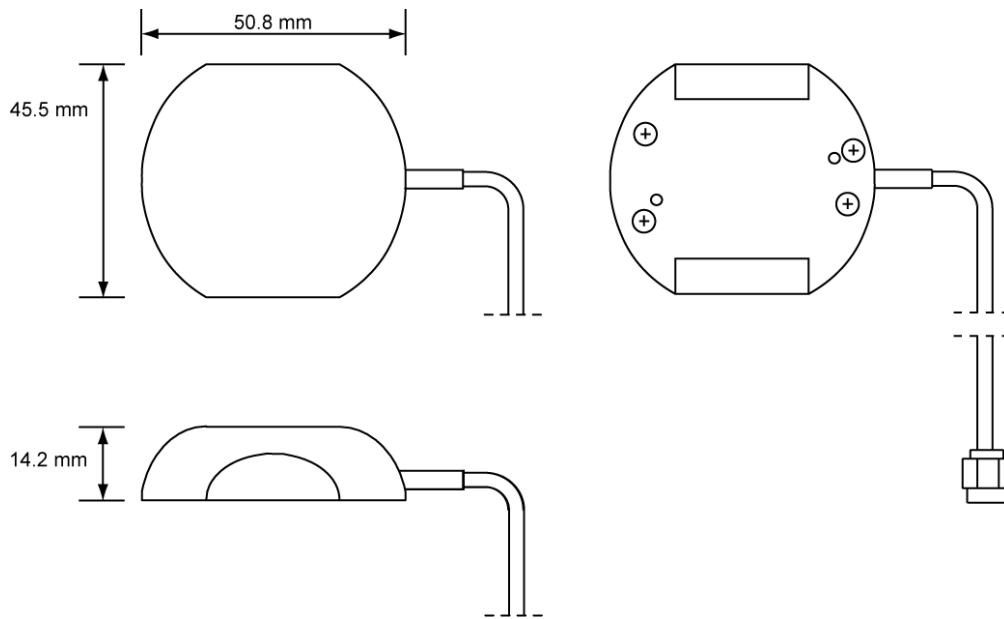
Pin	Signal	Pin	Signal
1	VDD	2	Ground
3	SData Out	4	Bit Clock
5	PC Beep	6	Ground
7	Reset	8	Sync
9	SData In	10	AC97 Clock

## ACS-9111: GPS Antenna kit

### ACS-9111-00

<b>Eurotech Part #</b>	<b>Qty.</b>	<b>Module</b>	<b>Conn.</b>	<b>Type</b>	<b>Description</b>	<b>RoHS</b>	<b>Page</b>
<b>ACS-9111</b>	1	COM-1288		Antenna	Centre Frequency 1575.42MHz	✓	24
<b>7040000036L</b>	1	COM-1288	J10	Cable	SMA to MCX	✓	38

## ACS-9111: Technical Details



### Connectors

Connector	Use	Type
Cn1	Antenna Input	SMA

### Electrical Specifications

Characteristic	Minimum	Typical	Maximum
Centre Frequency	1570.42	1575.42 MHz	1580.42
Impedance		50 Ohms	
VSWR			2
Antenna Gain 90°		0.0 dBi	
Polarization		RHCP	
Axial Ratio			3.0 dBi
System Gain	23 dBi	26 dBi +/- 3 dBi	29 dBi
Noise			2.0 dB
Input Voltage	3.0 Vdc		7.0 Vdc
Power Consumption			22 mA
Operating Temperature	-40°C		+85 °C
Cable Length	4850mm	5000mm	5150mm

### Mechanical Specifications

Characteristic	Type
Mounting	Magnetic
Cable Type	UL1107
Connector Type	SMA

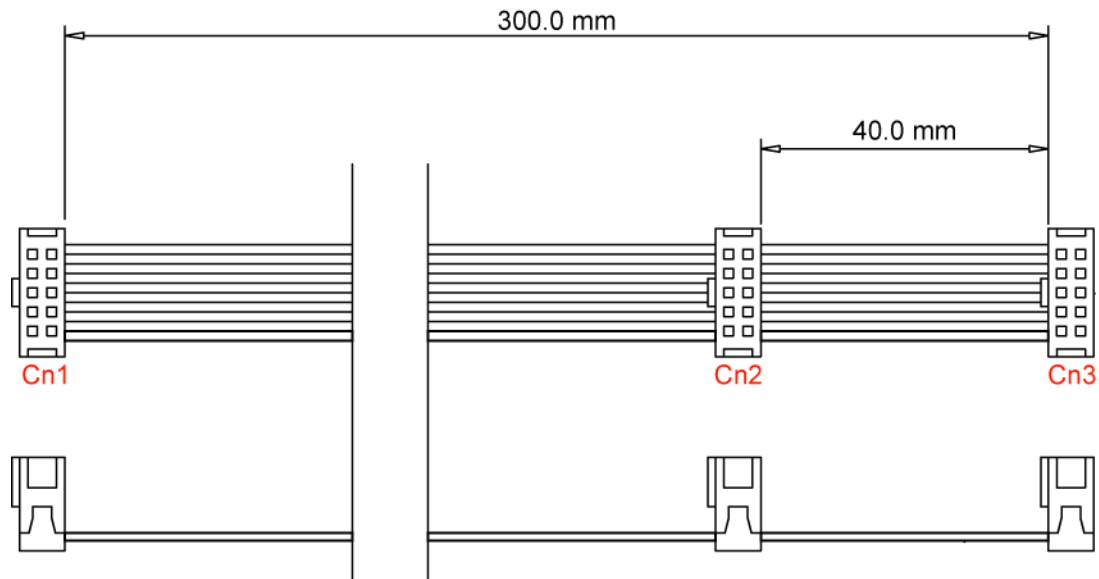


## **Chapter 2 Cable Descriptions**

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This Chapter gives detailed descriptions of all the cables supplied with the various adaptors

## 7000000033L: CAN Interconnection Cable



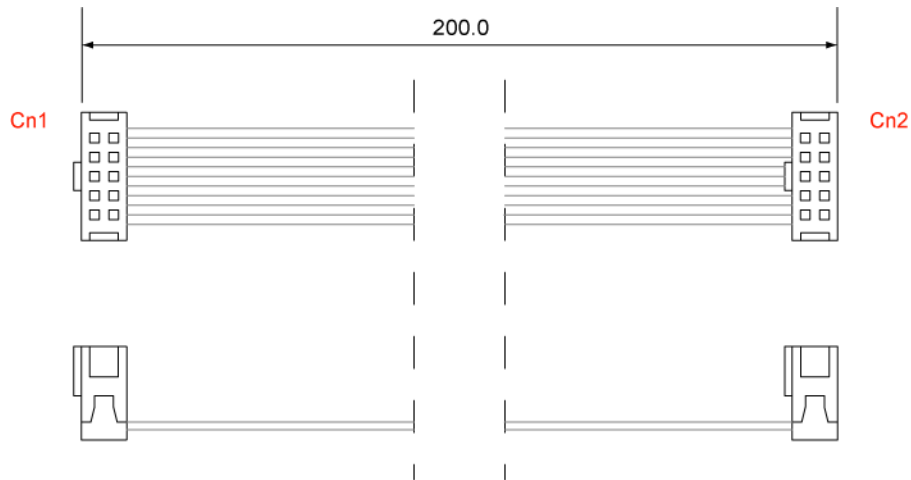
### Connectors

Connector #	Type	Pins	Format	Pitch (mm)
Cn1	Female Minitex IDC	10	5x2	2.54
Cn2	Female Minitex IDC	10	5x2	2.54
Cn3	Female Minitex IDC	10	5x2	2.54

### Pinout

Cn1 Pin	Cn2 / Cn3 Pin	Usage
1	1	Ground
2	2	Vdd
3	3	Ground
4	4	CAN 1 – T
5	5	Ground
6	6	CAN 2 – T
7	7	Ground
8	8	CAN 1 – R
9	9	+12V
10	10	CAN 2 – R

## 7000000091L: CPU to Ethernet Adaptor



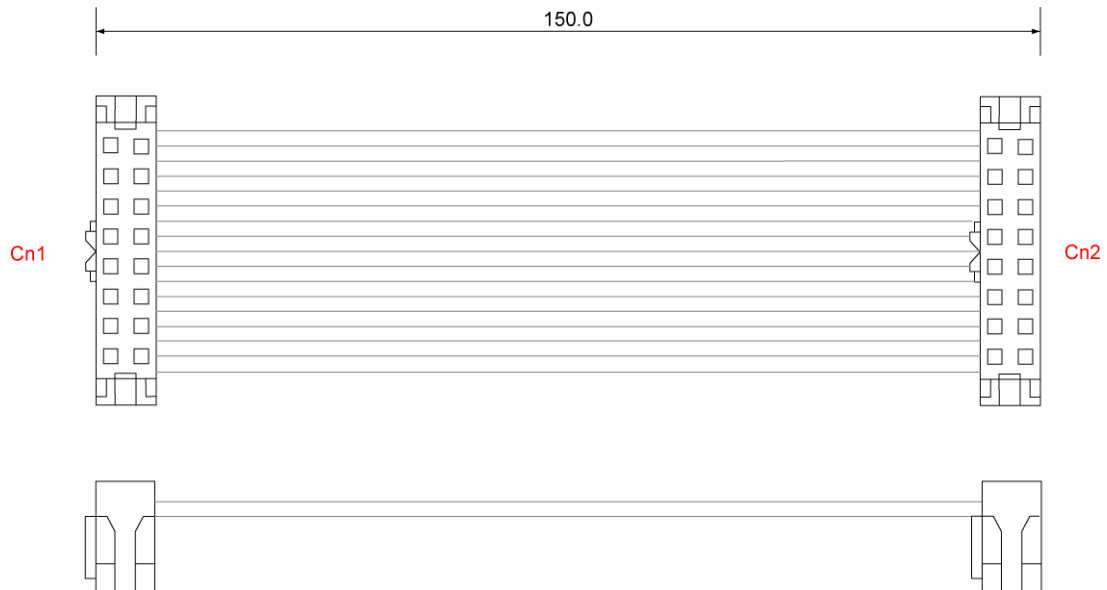
### Connectors

Connector #	Type	Pins	Format	Pitch (mm)
Cn1	Female Minitex IDC	10	5x2	2.54
Cn2	Female Minitex IDC	10	5x2	2.54

### Pinout

Cn1 Pin	Cn2 Pin	Usage	Wire Type
1	1	Vcc	AWG 28
2	2	Activity LED	AWG 28
3	3	+ Receive Data	AWG 28
4	4	- Receive Data	AWG 28
5	5	Link LED	AWG 28
6	6	Ground	AWG 28
7	7	Not Connected	AWG 28
8	8	Ground	AWG 28
9	9	+ Transmit Data	AWG 28
10	10	- Transmit Data	AWG 28

## 7000000155L: CPU to Gigabit Ethernet adaptor



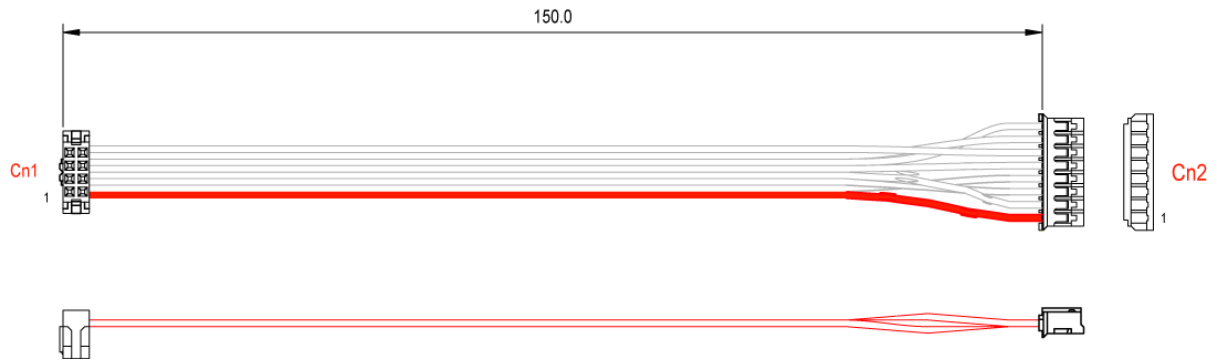
### Connectors

Connector #	Type	Pins	Format	Pitch (mm)
Cn1	Female Minitex IDC	16	8x2	2.00
Cn2	Female Minitex IDC	16	8x2	2.00

### Pinout

Cn1 Pin	Cn2 Pin	Usage	Wire Type
1	1	MX-1	AWG28
2	2	MX+1	AWG28
3	3	MX-2	AWG28
4	4	MX+2	AWG28
5	5	MX-3	AWG28
6	6	MX+3	AWG28
7	7	MX-4	AWG28
8	8	MX+4	AWG28
9	9	Iso Ground	AWG28
10	10	Not Connected	AWG28
11	11	Ground	AWG28
12	12	+3VS	AWG28
13	13	Link LED 0	AWG28
14	14	Activity LED 1	AWG28
15	15	Link 100 LED 2	AWG28
16	16	Link 1000 LED 3	AWG28

## 7000000160L: CPU to USB Adaptor



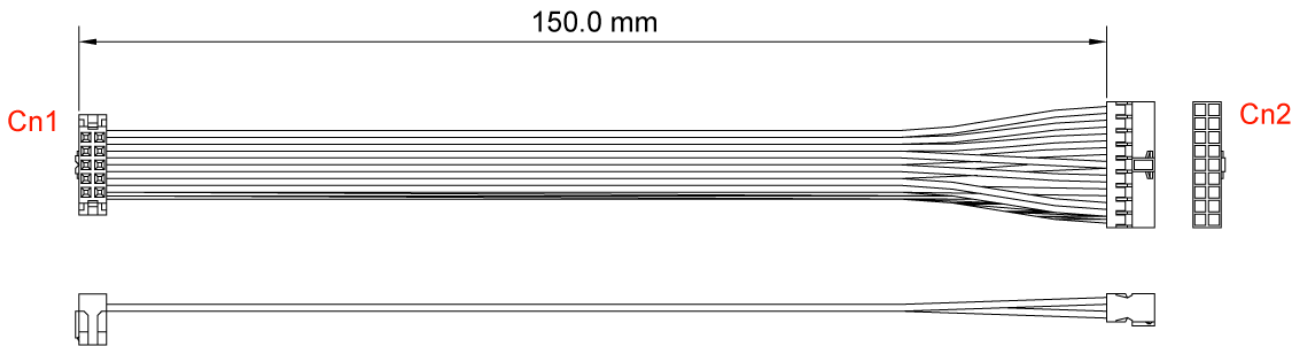
### Connectors

Connector #	Type	Pins	Format	Pitch (mm)
Cn1	Female Minitex	8	4x2	2.00
Cn2	Female SIL	8	8x1	2.00

### Pinouts

Cn1 Pin #	Cn2 Pin #	Usage
1	1	VDD
2	4	Ground
3	3	+ Data
4	2	- Data
5	5	VDD
6	8	Ground
7	7	+ Data
8	6	- Data

## 7000000165L: CPU to AC97 CODEC Adaptor



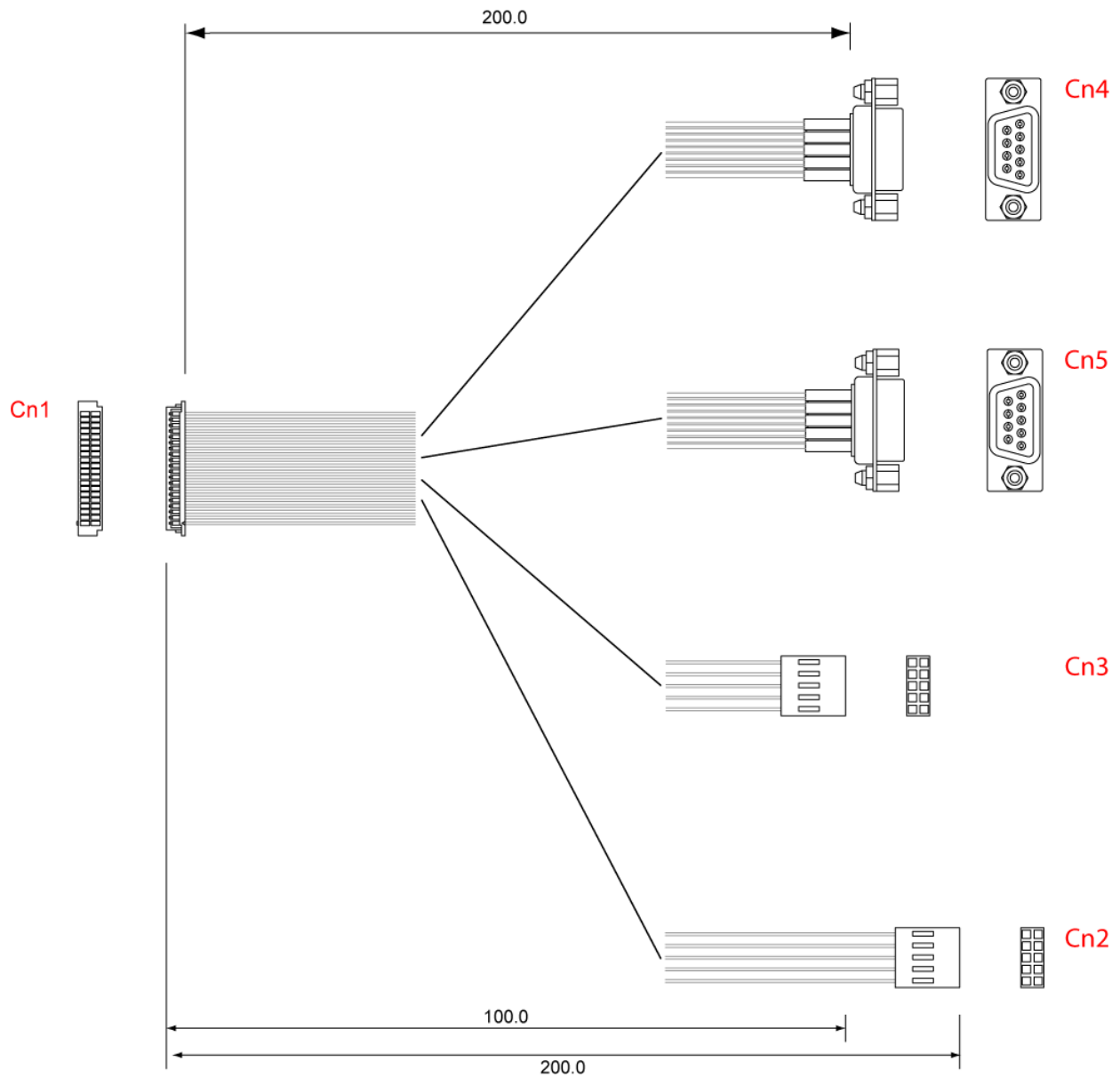
### Connectors

Connector #	Type	Pins	Format	Pitch (mm)
Cn1	Female Minitex IDC	10	5x2	2.00
Cn2	Female Minitex	18	9x2	2.00

### Pinout

Cn1 Pin	Cn2 Pin	Usage
1	1	VDD +5V
2	5	Ground
3	3	SD Out
4	10	Bit Clock
5	7	PC Beep
6	12	Ground
7	9	Reset Driver
8	14	Sync
9	15	SD In
10	18	AC97 Clock

### 7030000083L: CPU to Timers, Serial 3 & 4 and Ethernet Adaptor



**Connectors**

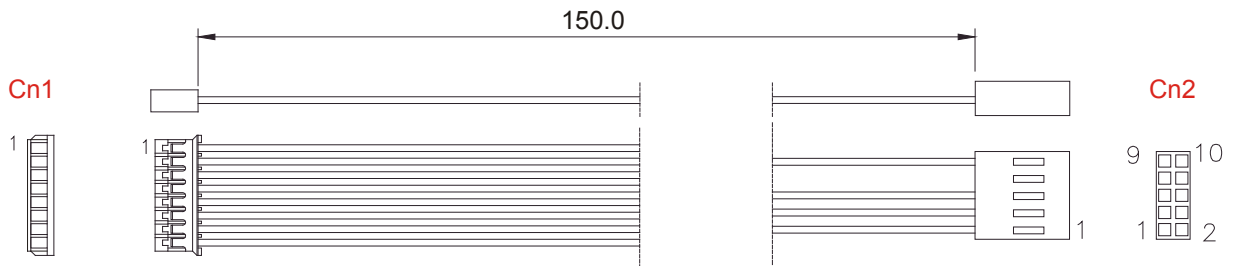
Connector #	Type	Pins	Format	Pitch (mm)
Cn1	Female Hirose	40	40x2	1.25
Cn2	Female Minitek	10	5x2	2.54
Cn3	Female Minitek	10	5x2	2.54
Cn4	Male	9	DB9	--
Cn5	Male	9	DB9	--

**Pinout**

<b>Pin</b>	<b>Connector</b>	<b>Pin</b>	<b>Signal</b>	<b>Pin</b>	<b>Connector</b>	<b>Pin</b>	<b>Signal</b>
1	Cn2	1	Timer Input 0	2	Cn2	2	Timer Output 0
3	Cn2	3	Timer Input 1	4	Cn2	4	Timer Output 1
5	Cn2	5	Watchdog Timer	6	Cn2	6	Ground
7	Cn2	7	GP 0	8	Cn2	8	GP 1
9	Cn2	9	Reserved	10	Cn2	10	Reserved
11	Cn3	5	Activity LED	12	Cn3	2	Link LED
13	Cn3	9	+ Transmit Data	14	Cn3	10	- Transmit Data
15	Cn3	3	+ Receive Data	16	Cn3	4	- Receive Data
17	Cn3	1	Vdd LAN	18	Cn3	6	Ground LAN
19	Not Used			20	Not Used		
21	Not Used			22	Not Used		
23	Cn4	1	DCD 1	24	Cn4	6	DSR 1
25	Cn4	2	RX 1	26	Cn4	7	RTS 1
27	Cn4	3	TX 1	28	Cn4	8	CTS 1
29	Cn4	4	DTR 1	30	Cn4	9	RI 1
31	Cn4	5	Ground 1	32	Cn5	5	Ground 2
33	Cn5	1	DCD 2	34	Cn5	6	DSR 2
35	Cn5	2	RX2	36	Cn5	7	RTS 2
37	Cn5	3	TX2	38	Cn5	8	CTS 2
39	Cn5	4	DTR	40	Cn5	9	RI 2



## 7030000163L: CPU to Ethernet Adaptor



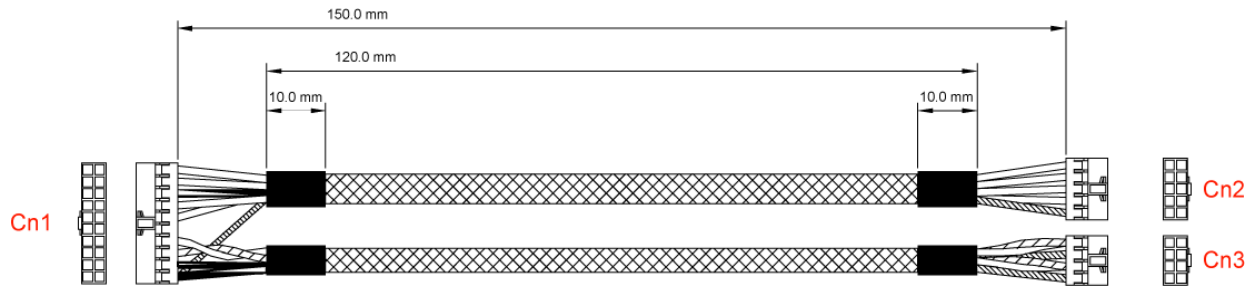
### Connectors

Connector #	Type	Pins	Format	Pitch (mm)
Cn1	Female JST PH series	8	8x1	2.00
Cn2	Female Housing	10	5x2	2.54

### Pinout

Cn1 Pin	Cn2 Pin	Usage
1	10	Transmit -
2	9	Transmit +
3	6	Ground
4	5	Link
5	4	Receive -
6	3	Receive +
7	2	Activity LED
8	1	VDD

## 7030000240L: CPU to AC97 CODEC & USB Adaptors



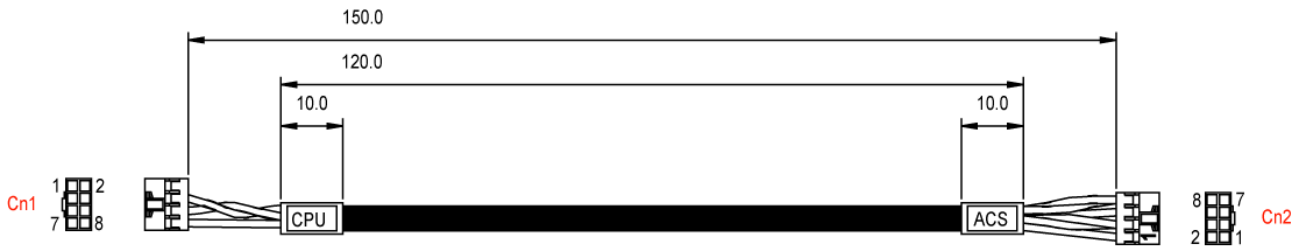
### Connectors

Connector	Name	QTY Pins	Format	Pitch (mm)
Cn1	Female Minitex	20	10x2	2.00
Cn2	Female Minitex	10	5x2	2.00
Cn3	Female Minitex	8	4x2	2.00

### Pinouts

Cn1 Pin	Connector	Pin	Usage	Colour	Notes
1	Cn2	5	Speaker	Grey	
2	Not Used				
3	Cn2	3	SDOUT	Grey	
4	Not Used				
5	Cn2	2	Ground	Black	
6	Cn2	6	Ground	Black	
7	Cn2	9	SDIN0	Grey	
8	Cn2	4	Bit Clock	Grey	
9	Cn2	7	Reset	Grey	
10	Cn2	8	Sync	Grey	
11	Not Used				
12	Not Used				
13	Cn3	4	- Data	White	Twisted with Cn1 – Pin 15
14	Cn3	8	- Data	White	Twisted with Cn1 – Pin 16
15	Cn3	3	+ Data	Green	Twisted with Cn1 – Pin 13
16	Cn3	7	+ Data	Green	Twisted with Cn1 – Pin 14
17	Cn3	2	Ground	Black	
18	Cn3	1 & 5	VDD	Red	Double Wire
19	Cn3	6	Ground	Black	
20	Cn2	1	VDD	Red	

# 7030000245L: CPU to USB Adaptor



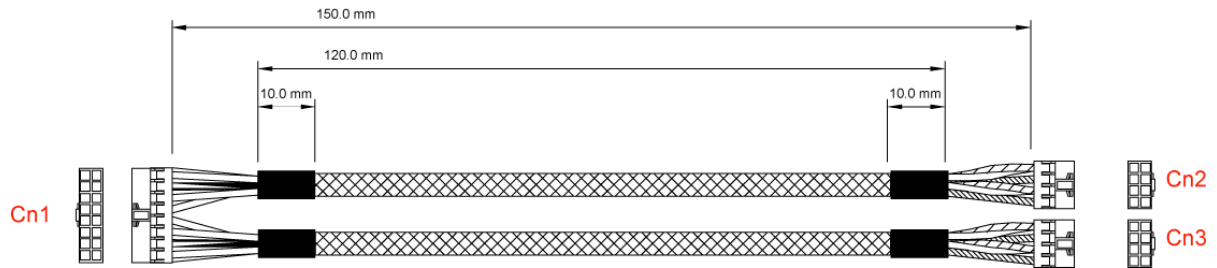
### Connectors

Connector #	Type	Pins	Format	Pitch (mm)
Cn1	Female Minitex	8	4x2	2.00
Cn2	Female Minitex	8	4x2	2.00

### Pinout

Cn1 Pin	Cn2 Pin	Usage	Colour	Notes
1	Not Used			
2	Not Used			
3	4	- Data	White	Twisted with Cn1 - pin #5
4	8	- Data	White	Twisted with Cn1 - pin #6
5	3	+ Data	Green	Twisted with Cn1 - pin #3
6	7	+ Data	Green	Twisted with Cn1 - pin #4
7	2	Ground	Black	
8	6	Ground	Black	

## 7030000246L: CPU to 2x USB Adaptors



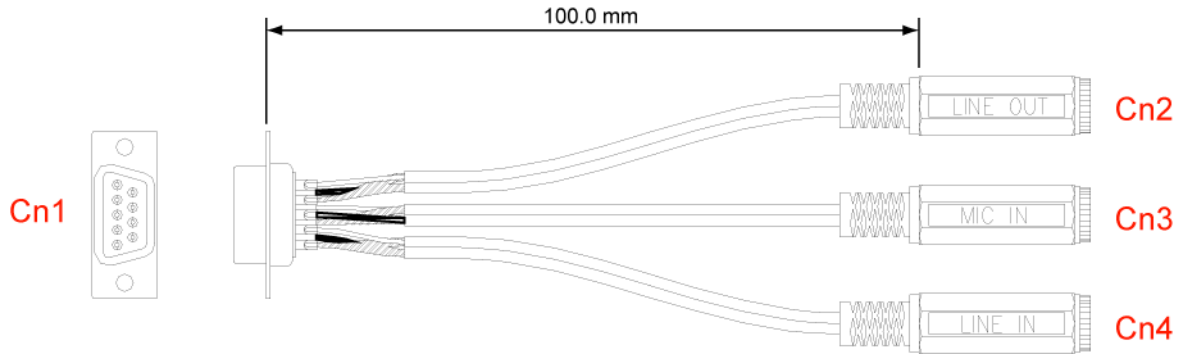
### Connectors

Connector	Type	Pins	Format	Pitch (mm)
Cn1	Female Minitek	16	8x2	2.00
Cn2	Female Minitek	8	4x2	2.00
Cn3	Female Minitek	8	4x2	2.00

### Pinout

Cn1 Pin	Connector	Pin	Usage	Colour	Notes
1	Cn2	1	VDD	Black	
2	Cn2	2	Ground	Black	
3	Cn2	4	- Data	White	Twisted with Cn1 – Pin 4
4	Cn2	3	+ Data	Green	Twisted with Cn1 – Pin 3
5	Cn2	5	VDD	Black	
6	Cn2	6	Ground	Black	
7	Cn2	8	- Data	White	Twisted with Cn1 – Pin 8
8	Cn2	7	+ Data	Green	Twisted with Cn1 – Pin 7
9	Cn3	1	VDD	Black	
10	Cn3	2	Ground	Black	
11	Cn3	4	- Data	White	Twisted with Cn1 – Pin 11
12	Cn3	3	+ Data	Green	Twisted with Cn1 – Pin 12
13	Cn3	5	VDD	Black	
14	Cn3	6	Ground	Black	
15	Cn3	8	- Data	White	Twisted with Cn1 – Pin 16
16	Cn3	7	+ Data	Green	Twisted with Cn1 – Pin 15

## 7030000300L: AC97 CODEC Adaptor to 3x 2.5mm Jack sockets



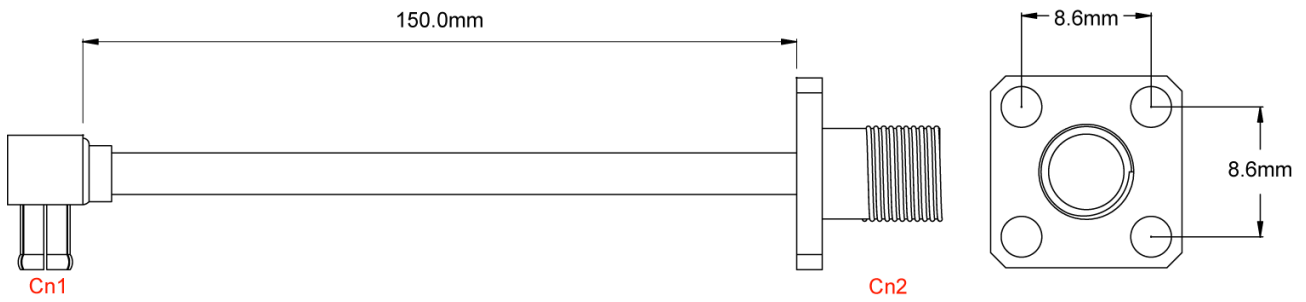
### Connectors

Connector #	Type
Cn1	Male 9pin D-Sub
Cn2	Female 3.5mm Stereo Jack Socket
Cn3	Female 3.5mm Stereo Jack Socket
Cn4	Female 3.5mm Stereo Jack Socket

### Pinout

Cn1 Pin	Connector	Pin	Usage	Colour
1	Cn2	Left	Line Out Left	White
6	Cn2	Right	Line Out Right	Red
2	Cn2	Shield	Ground	Cable Shield
7	Cn3	Left	Microphone In	White
3	Cn3	Right	Microphone Vref	Red
8	Cn3	Shield	Ground	Cable Shield
4	Cn4	Left	Line In Left	White
9	Cn4	Right	Line In Right	Red
5	Cn4	Shield	Ground	Cable Shield

## 7040000036L: Male MCX to Female SMA



### Connectors

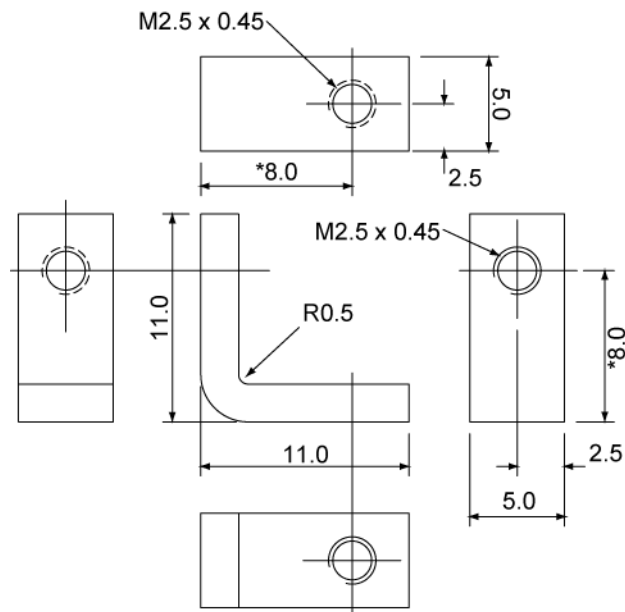
Connector #	Type
Cn1	Male MCX
Cn2	Female SMA

## **Chapter 3 Mechanical Parts**

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The following pages give details of the various mechanical parts supplied with the various kits

## 1100000110L: 90-Degree mounting bracket



<b>Material</b>	White galvanized steel
<b>Length</b>	11.0mm
<b>Height</b>	11.0mm
<b>Width</b>	5.0mm
<b>Thickness</b>	2.0mm



## Chapter 4 Revision History

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<b>Adaptor Model Number</b>	<b>Reference</b>	<b>Kit revision date</b>	<b>Data last updated</b>
ACS-9094-00	8	30/06/2006	27/09/2006
ACS-9095-05	11	29/06/2006	16/10/2006
ACS-9095-07	11	29/06/2006	16/10/2006
ACS-9096-00	15	25/08/2006	29/08/2006
ACS-9092-00	18	30/06/2006	29/08/2006
ACS-9092-02	18	11/09/2006	11/10/2006
ACS-9093-00	21	30/06/2006	29/08/2006
ACS-9093-01	21	30/06/2006	29/08/2006
ACS-9111-00	23	05/07/2006	29/08/2006