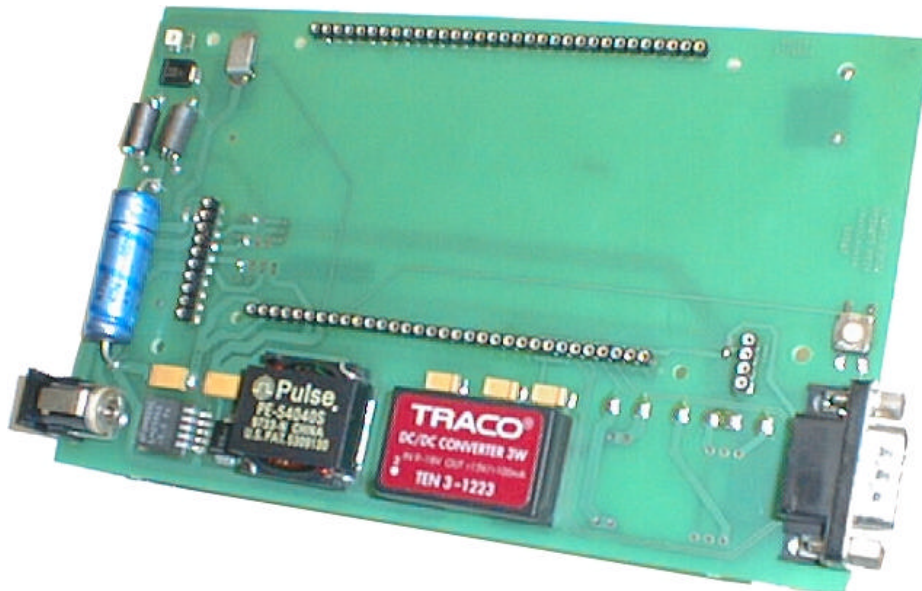


micro-line® PowerSupply

Stand-alone Carrier Board

Technical Overview



Key Features

Hardware:

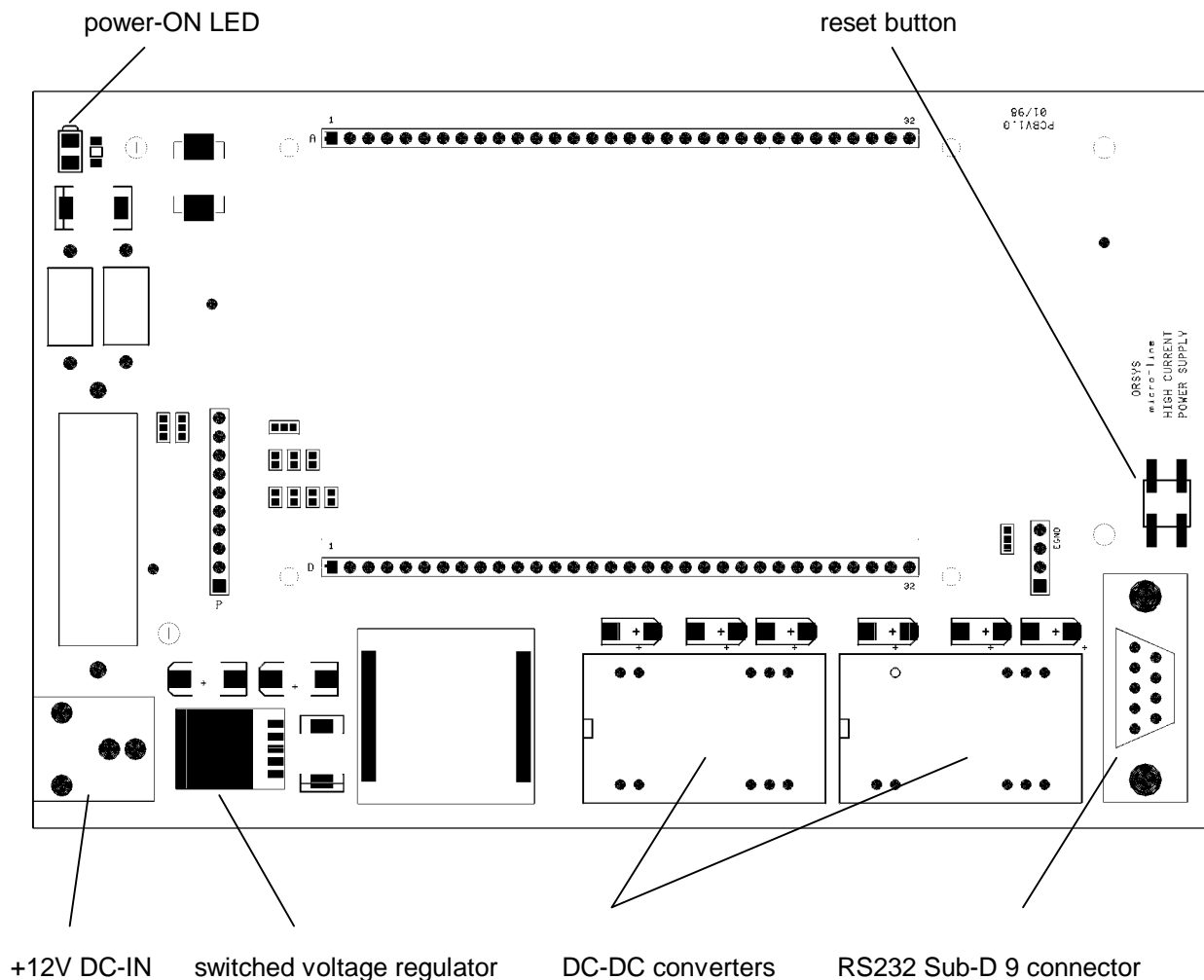
- universal piggy-back carrier platform for all micro-line® DSP and peripheral boards
- integrated power supply with switched voltage regulator for +3,3V or +5V with up to 2,5A
- additional DC/DC converters with up to four isolated $\pm 15V$ voltages for analog components or IEEE 1394 cable environment
- micro-line® system bus, pin-compatible with the entire micro-line® family
- piggy-back plug-on system, no backplane required
- SUD-D 9-pole RS232 interface: PC-compatible, with null-modem cable for a direct connection to a development PC
- EMI protection components
- reset button
- power-ON indicator LED
- polarity protection
- board dimensions 160 x 100 mm (6,23 x 3,93 in)

General Description

The micro-line® PowerSupply board is a stand-alone carrier platform for the micro-line® processor and peripheral board family. The PowerSupply Kit includes all necessary components and considerably facilitates the operation of micro-line® boards. Additional cables, plugs or power supplies are not required.

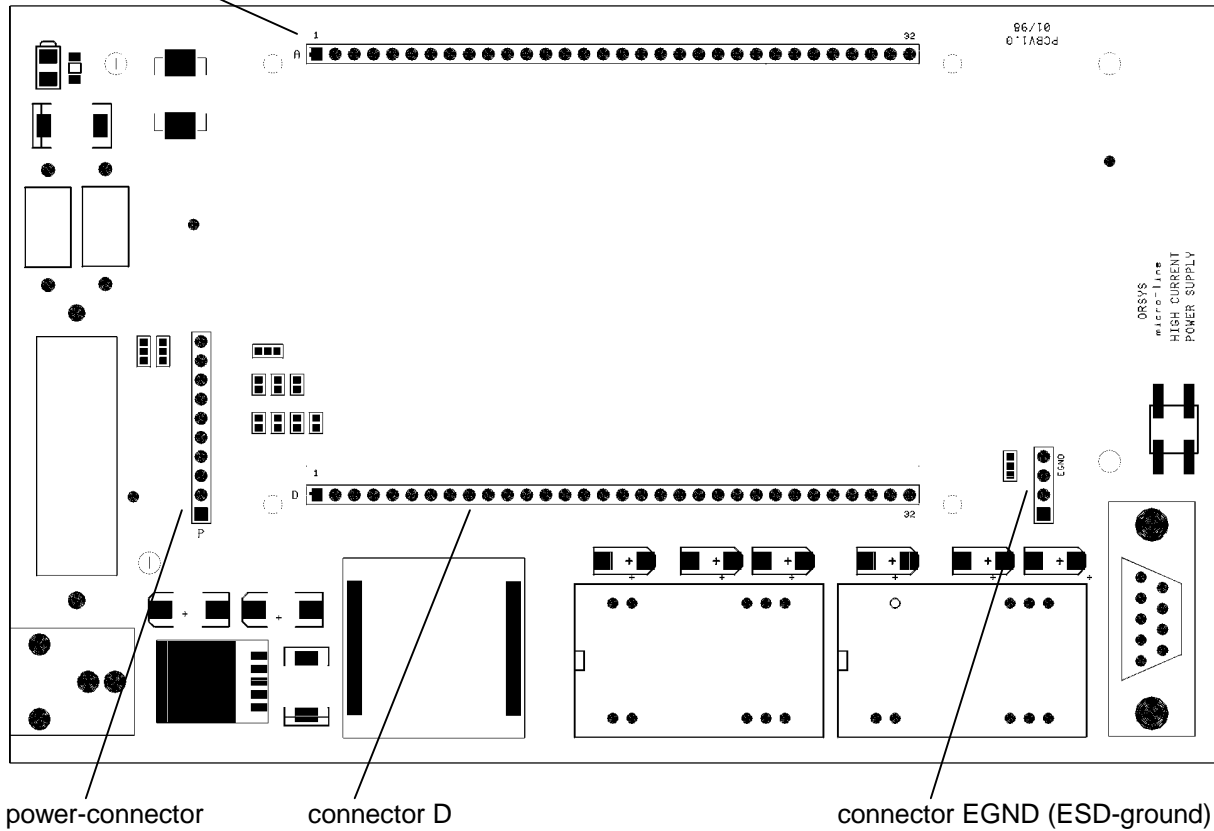
The micro-line® Power Supply Kit includes the following components:

- micro-line® PowerSupply board with mechanical bus connectors for piggy-back plugging of micro-line® boards
- 230V power supply with separate universal AC adapter (max. 12 V DC, 9,6VA)
- Extraction tool to remove micro-line® boards easily
- SUB-D 9-pole RS232 interface with null-modem cable for a direct connection to a development PC
- +3,3V or +5V switched voltage regulator for high current digital voltage (up to 2,5A)
- ±15V DC/DC converter(s) to generate up to four galvanically isolated power supplies for sensitive ADC or DAC peripherals or IEEE 1394 cable voltages



PowerSupply Pin-Configuration

Connector A



The micro-line® connectors AA, B, C, E, EE and X are not provided.

pin	connector A	connector D	connectorEGND	connector P
1	-	GND	EGND	A+15V
2	-	GND	EGND	AGND
3	-	GND	EGND	AGND
4	-	GND	EGND	A-15V
5	-	D+3,3..5V		D+12V
6	-	D+3,3..5V		X+15V
7	-	/RESET		XGND
8	-	-		X-15V
9	-	-		PGND
10	-	-		P+12V
.	.	.		
.	.	.		
.	.	.		
.	.	.		
26	-	TXD		
27	-	RTS		
28	-	RXD		
29	-	CTS		
30	-	-		
31	-	-		
32	-	-		

Specification Summary

Input Voltage Range	<ul style="list-style-type: none"> - 9-18V DC with DC/DC converters - 7-30V DC without DC/DC converters
Output Voltages	<ul style="list-style-type: none"> - +3,3V or +5V with up to 2,5A for digital components - optional $\pm 15V$ / 100mA for analog components (200mA optional) - optional $\pm 15V$ / 100mA for IEEE 1394 cable environment (200mA optional) - optional 2* $\pm 15V$ / 100mA for Analog/Analog or Analog/IEEE 1394 (200mA optional)
Additional Features	<ul style="list-style-type: none"> - reset button - power-ON LED - RS232 SUB-D 9 connector - EMI protection components
System Interface	micro-line® bus
Board Dimensions	160 mm x 100 mm (6,23 x 3,93 in)

Available versions of the micro-line® PowerSupply:

- /1: Digital +5V (without $\pm 15V$ DC/DC converter)
- /2: Digital +5V and one $\pm 15V$ / 100mA DC/DC converter for analog components
- /3: Digital +5V and one $\pm 15V$ / 100mA DC/DC converter for IEEE 1394 cable environment
- /4: Digital +5V and two $\pm 15V$ / 100mA DC/DC converters, both for analog components, or one for analog and one for IEEE 1394 cable environment
- /5: Digital +3,3V (without $\pm 15V$ DC/DC converter)
- /6: Digital +3,3V and one $\pm 15V$ / 100mA DC/DC converter for analog components
- /7: Digital +3,3V and one $\pm 15V$ / 100mA DC/DC converter for IEEE 1394 cable environment
- /8: Digital +3,3V and two $\pm 15V$ / 100mA DC/DC converters, both for analog components, or one for analog and one for IEEE 1394 cable environment

Related micro-line® hardware products:

micro-line® ADA2-212	2 x 12 bit 250 ksps parallel sampling ADC, 2 x 12 bit 100 ksps DAC board
micro-line® AD4-612	4-channel, 12-bit, 600ksps, analog data acquisition board
micro-line® SC1394a	400 Mbit/s IEEE1394a high speed serial bus communication board
micro-line® C32CPU	32 bit floating-point processor board
micro-line® C44CPU	32 bit floating-point processor board
micro-line® C6211CPU	32 bit high performance fixed point C6000 processor board
micro-line® C6711CPU	32 bit high performance floating point C6000 processor board
micro-line® C6712CPU	32 bit low cost floating point C6000 processor board with 16 bit I/O
micro-line® C6713Compact	32 bit high performance floating point C6000 processor board with onboard VIRTEX 2 FPGA and IEEE 1394a
UC1394a Carrier	Carrier board for the ultra-compact UC1394a-x multi chip module family

Pricing:

Please ask your local distributor for ORSYS price information.

Warranty:

ORSYS micro-line® products have a warranty of 12 months.



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