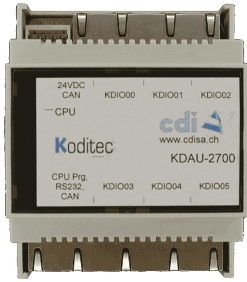


# KDAU-2700 - PROCESSOR MODULE

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## DESCRIPTION

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- Processor module for KDAU-2014 CPU board
- 6 x KDIO Channel connectors
- 1 x RS232/PROGRAMMING/CAN Bus connector
- 1 x Supply/CAN Bus connector
- Controllable 5V regulator for KDIO Channel supply
- 2.5V Voltage reference for KDAU-2014 CPU board
- Intern battery supply optional connector for real-time clock application

## TECHNICAL INFORMATION

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Information below refer to an KDAU-2014 CPU board installed in the module.

### ELECTRICAL

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#### SUPPLY

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- 24VDC

#### CONNEXIONS

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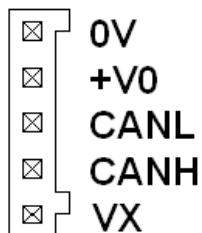
##### TOP MODULE VUE:

SUPPLY	KDIO0	KDIO1	KDIO2
KDAU-2700			
PROG/COM	KDIO3	KDIO4	KDIO05

**WARNING** - Except if specified else, all signal are TTL (max 5V - 25mA)

## KDAU-2700 - PROCESSOR MODULE

SUPPLY CONNECTOR "SUPPLY":



PIN	5	4	3	2	1
SIGNAL	VX	CANH	CANL	+V0	0V

- +V0 - Supply 9-24V
- VX - Vbat or V1 see bridges details BRIDGES
- CANx - CAN BUS - 120 Ohms resistor should be installed at each bus end.

KDIO0..2 CONNECTORS:

PIN	1	2	3	4	5	6	7	8
SIGNAL	KDIOx0	KDIOx1	KDIOx2	KDIOx3	KDIOx4	KDIOx5	+VDD	0V

PROG/COM CONNECTOR:

PIN	8	7	6	5	4	3	2	1	ECRAN
SIGNAL	PRG MCLR	+VDD	RS RXD	PRG PGC	PRG PGD	RS TXD	CANL	CANH	0V

- RS - RS-232 Interface - Default setting: 38400 8-N-1
- CANx - CAN BUS
- PRG - Programming interface

KDIO3..5 CONNECTORS:

PIN	8	7	6	5	4	3	2	1
SIGNAL	0V	+VDD	KDIOx5	KDIOx4	KDIOx3	KDIOx2	KDIOx1	KDIOx0

## KDAU-2700 - PROCESSOR MODULE

### SIGNALS ORGANISATIONS ON KDIO RJ-45 CONNECTORS

#### RJ-45

	Channel	KDIOxx channel bits							
FCT	KDIOxx	0	1	2	3	4	5	V+	0V
PIN	-	1	2	3	4	5	6	7	8
I/O	0-5	CK	DO	DI	CS	(I ANA)	(I CAP)	+VDD	0V
PWM	0-4	PWM	FWD	REW	FAULT	DISABLE	CODE	+VDD	0V
RS-232	0	-	TXD	RXD	-	-	-	+VDD	0V
ENCODER	1	LS-	LS+	QEB	IDX	QEA	OK	+VDD	0V
SPI HW	5	CK	DO	DI	CS	-	-	+VDD	0V
HW FCT	1-4	PWM	-	-	CN	I ANA	I CAP	+VDD	0V
INT	3	-	INT	-	-	-	-	+VDD	0V

CN: Change notification interrupt, I Ana: Analog input, I Cap:Fast counter capture input, INT.:Interrupt

#### KDIO-EXT IDC-08

SIGNAL	+VDD	KDIOxx3	KDIOxx4	KDIOxx5
PIN	2	4	6	8
<b>IDC08</b>				
PIN	1	3	5	7
SIGNAL	0V	KDIOxx0	KDIOxx1	KDIOxx2

#### BRIDGES

##### Rev 000

ID	Def	Description
VSEL	V1	V1 or V <sub>Bat</sub> on Supply connector PIN 5
R	ON	V <sub>REF-</sub> on GND

##### Rev 001

ID	Def	Description
5V	OFF	Shorted if no U080 voltage regulator option installed
VSEL	V1	V1 or V <sub>Bat</sub> on Supply connector PIN 5
R	ON	V <sub>REF-</sub> on GND

Default setting:

```

  B R
  + + +
  |
V1 +-+ +
    
```

Default setting:

```

  B R
  + + + + + + + + +
  |
+ +-+ + + + + + +
5 VS  0 1 2 3 4 5
V EL
    
```

## KDAU-2700 - PROCESSOR MODULE

### MECHANICAL

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#### DIMENSIONS

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- L 71.0mm x H 90mm x 58mm
- Conform for 35mm DIN Rail mount (DIN 43880) or direct surface mount
- IP30 protection

#### COLOR

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- Grey RAL 7035
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