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# TPMC866-TM-30

## Transition Module for 2 TPMC866 with 16 RJH Connectors

Version 1.0 Revision A

### User Manual

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**TPMC866-TM-30**

Transition Module for 2 TPMC866 with 16 RJH Connectors

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**Style Conventions**

Hexadecimal characters are specified with prefix 0x, i.e. 0x029E (that means hexadecimal value 029E).

For signals on hardware products, an 'Active Low' is represented by the signal name with # following, i.e. IP\_RESET#.

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# **1 Product Description**

The TPMC866-TM-30 is a complete interface solution for the TPMC866-10 and the TPMC866-12 (RS485 HD mode only). Two TPMC866-10/12 can be connected to one TPMC866-TM-30. The TPMC866-TM-30 comes with two TA105-10 cables (0.8m ribbon cable with 50 pin ribbon cable connector and 50 pin SCSI-2 male connector).

The 16 serial ports of the two TPMC866-10 or TPMC867-10 are routed to 16 4-pin RJH connectors located in the 6U/4TE front panel of the TPMC866-TM-30.

Jumper fields are provided for each channel to select termination for the RS485 (Jn1: 1-2, 3-4).

A two pin screw terminal (X9) can be used to supply the on board termination for RS485.

TXD, RXD and GND are supported for each of the 8 serial channels of the TPMC866-10 (RS232).

DX+/- and GND are supported for the TPMC866-12 (RS485 HD mode).

## 2 Technical Specification

<b>Board Size</b>	233 mm x 80 mm
<b>Front panel</b>	6U / 4TE front panel with 16 4pin RJH connectors
<b>Interface</b>	2 connector for 50 conductor flat cable
<b>Cable</b>	2 TA105-10 (0.8m ribbon cable with 50 pin ribbon cable connector and 50 pin SCSI-2 male connector)
<b>Power Supply</b>	+5V / GND by 2 pin screw terminal Power only required supplying on board termination. Fuse protected by a 1A Multifuse.

Figure 2-1: Technical Specification

### 3 Connector X1/X2 Pin Assignment

Connector X1			Connector X2		
X1 Pin	TPMC866-10 (RS232)	TPMC866-12 (RS485 HD)	X2 Pin	TPMC866-10 (RS232)	TPMC866-12 (RS485 HD)
1	GND1	GND1	1	GND9	GND9
2	TXD1	DX1-	2	TXD9	DX9-
3	RXD1	DX1+	3	RXD9	DX9+
4	Nc	Nc	4	Nc	Nc
5	Nc	Nc	5	Nc	Nc
6	GND2	GND2	6	GND10	GND10
7	TXD2	DX2-	7	TXD10	DX10-
8	RXD2	DX2+	8	RXD10	DX10+
9	Nc	Nc	9	Nc	Nc
10	Nc	Nc	10	Nc	Nc
11	GND3	GND3	11	GND11	GND11
12	TXD3	DX3-	12	TXD11	DX11-
13	RXD3	DX3+	13	RXD11	DX11+
14	Nc	Nc	14	Nc	Nc
15	Nc	Nc	15	Nc	Nc
16	GND4	GND4	16	GND12	GND12
17	TXD4	DX4-	17	TXD12	DX12-
18	RXD4	DX4+	18	RXD12	DX12+
19	Nc	Nc	19	Nc	Nc
20	Nc	Nc	20	Nc	Nc
21	GND5	GND5	21	GND13	GND13
22	TXD5	DX5-	22	TXD13	DX13-
23	RXD5	DX5+	23	RXD13	DX13+
24	Nc	Nc	24	Nc	Nc
25	Nc	Nc	25	Nc	Nc
26	GND6	GND6	26	GND14	GND14
27	TXD6	DX6-	27	TXD14	DX14-
28	RXD6	DX6+	28	RXD14	DX14+
29	Nc	Nc	29	Nc	Nc
30	Nc	Nc	30	Nc	Nc
31	GND7	GND7	31	GND15	GND15
32	TXD7	DX7-	32	TXD15	DX15-
33	RXD7	DX7+	33	RXD15	DX15+
34	Nc	Nc	34	Nc	Nc
35	Nc	Nc	35	Nc	Nc
36	GND8	GND8	36	GND16	GND16
37	TXD8	DX8-	37	TXD16	DX16-

Connector X1			Connector X2		
X1 Pin	TPMC866-10 ( RS232 )	TPMC866-12 ( RS485 HD)	X2 Pin	TPMC866-10 ( RS232 )	TPMC866-12 ( RS485 HD)
38	RXD8	DX8+	38	RXD16	DX16+
39	nc	nc	39	Nc	nc
40	nc	nc	40	Nc	nc
41	nc	nc	41	Nc	nc
42	nc	nc	42	nc	nc
43	nc	nc	43	nc	nc
44	nc	nc	44	nc	nc
45	nc	nc	45	nc	nc
46	nc	nc	46	nc	nc
47	nc	nc	47	nc	nc
48	nc	nc	48	nc	nc
49	nc	nc	49	nc	nc
50	nc	nc	50	nc	nc

nc = not connected on the TPMC866-TM-30

Figure 3-1: Connector X1/X2 Pin Assignment

## 4 RJ45 Pin Assignment

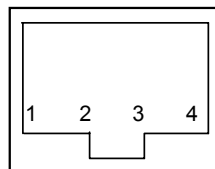
Pin No. RJH	RS232	RS485
1	GND	GND
2	RXD	DX+
3	TXD	DX-
4	GND	GND

Figure 4-1: Pin Assignment of RJH Connector TPMC866-TM-30 Channel 1 and 16

**Jn1: n = 1 to 16 identifies jumper fields for serial channel 1 to 16.**

**GND of each of the 16 RJH connectors is routed separately to X1 / X2.**

**The TPMC866-12 provides jumper selectable on board termination for RS422 / RS485. If the on board termination of the TPMC866-12 is enabled then do not use the termination jumper fields of the TPMC866-TM-30!!**



RJH Pinning

# 5 Assembly Drawing

