The Embedded I/O Company

TEWS TECHNOLOGIES

TPIM001-10

PIM I/O Module

Version 1.0

User Manual

Issue 1.2

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TPIM001-10

PIM I/O Module with 50 pin SCSI-2 Type Connector in EMI Front Panel

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. RESET#.

Issue	Description	Date
1.0	First Issue	December 2003
1.1	Additions in Chapter “Technical Specification”	November 2004
1.2	New address TEWS LLC	September 2006

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1 Product Description

The TPIM001 is a standard single-width PIM I/O module to be used with any PIM carrier. It offers easy access to the PMC back I/O lines of PMC carrier with back I/O.

The TPIM001 distributes the lower 50 I/O lines of the PMC to a standard 50 pin SCSI-2 type connector located in the EMI front panel.

The operating temperature range is -40°C to +85°C.

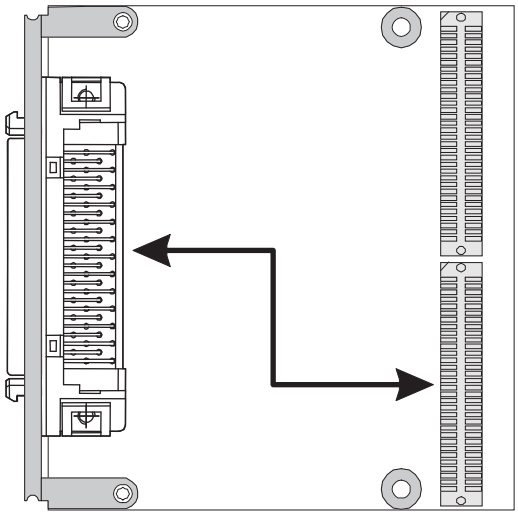

Figure 1-1 : Block Diagram

2 Technical Specification

Front Panel	EMI front panel
Number of PMC I/O Lines Supported	50
I/O Interface	HD50 SCSI-2 type connector
Operating Data	
Temperature Range	Operating: -40°C to +85°C Storage: -40°C to +100°C
MTBF	2086000 h
Weight	45 g
Board Size	69 mm x 74 mm
Humidity	5 – 95% non condensing

Figure 2-1 : Technical Specification

3 Connector P14

P14 Pin	Signal Name	Signal Name	P14 Pin
1	PMC I/O 1	PMC I/O 2	**2**
3	PMC I/O 3	PMC I/O 4	**4**
5	PMC I/O 5	PMC I/O 6	**6**
7	PMC I/O 7	PMC I/O 8	**8**
9	PMC I/O 9	PMC I/O 10	**10**
11	PMC I/O 11	PMC I/O 12	**12**
13	PMC I/O 13	PMC I/O 14	**14**
15	PMC I/O 15	PMC I/O 16	**16**
17	PMC I/O 17	PMC I/O 18	**18**
19	PMC I/O 19	PMC I/O 20	**20**
21	PMC I/O 21	PMC I/O 22	**22**
23	PMC I/O 23	PMC I/O 24	**24**
25	PMC I/O 25	PMC I/O 26	**26**
27	PMC I/O 27	PMC I/O 28	**28**
29	PMC I/O 29	PMC I/O 30	**30**
31	PMC I/O 31	PMC I/O 32	**32**
33	PMC I/O 33	PMC I/O 34	**34**
35	PMC I/O 35	PMC I/O 36	**36**
37	PMC I/O 37	PMC I/O 38	**38**
39	PMC I/O 39	PMC I/O 40	**40**
41	PMC I/O 41	PMC I/O 42	**42**
43	PMC I/O 43	PMC I/O 44	**44**
45	PMC I/O 45	PMC I/O 46	**46**
47	PMC I/O 47	PMC I/O 48	**48**
49	PMC I/O 49	PMC I/O 50	**50**
51	NC	NC	**52**
53	NC	NC	**54**
55	NC	NC	**56**
57	NC	NC	**58**
59	NC	NC	**60**
61	NC	NC	**62**
63	NC	NC	**64**

Figure 3-1 : Connector P14

4 Connector X1

X1 Pin	Signal Name	Signal Name	X1 Pin
1	PMC I/O 1	PMC I/O 2	**2**
3	PMC I/O 3	PMC I/O 4	**4**
5	PMC I/O 5	PMC I/O 6	**6**
7	PMC I/O 7	PMC I/O 8	**8**
9	PMC I/O 9	PMC I/O 10	**10**
11	PMC I/O 11	PMC I/O 12	**12**
13	PMC I/O 13	PMC I/O 14	**14**
15	PMC I/O 15	PMC I/O 16	**16**
17	PMC I/O 17	PMC I/O 18	**18**
19	PMC I/O 19	PMC I/O 20	**20**
21	PMC I/O 21	PMC I/O 22	**22**
23	PMC I/O 23	PMC I/O 24	**24**
25	PMC I/O 25	PMC I/O 26	**26**
27	PMC I/O 27	PMC I/O 28	**28**
29	PMC I/O 29	PMC I/O 30	**30**
31	PMC I/O 31	PMC I/O 32	**32**
33	PMC I/O 33	PMC I/O 34	**34**
35	PMC I/O 35	PMC I/O 36	**36**
37	PMC I/O 37	PMC I/O 38	**38**
39	PMC I/O 39	PMC I/O 40	**40**
41	PMC I/O 41	PMC I/O 42	**42**
43	PMC I/O 43	PMC I/O 44	**44**
45	PMC I/O 45	PMC I/O 46	**46**
47	PMC I/O 47	PMC I/O 48	**48**
49	PMC I/O 49	PMC I/O 50	**50**

Figure 4-1 : Connector X1

5 Pin Assignment

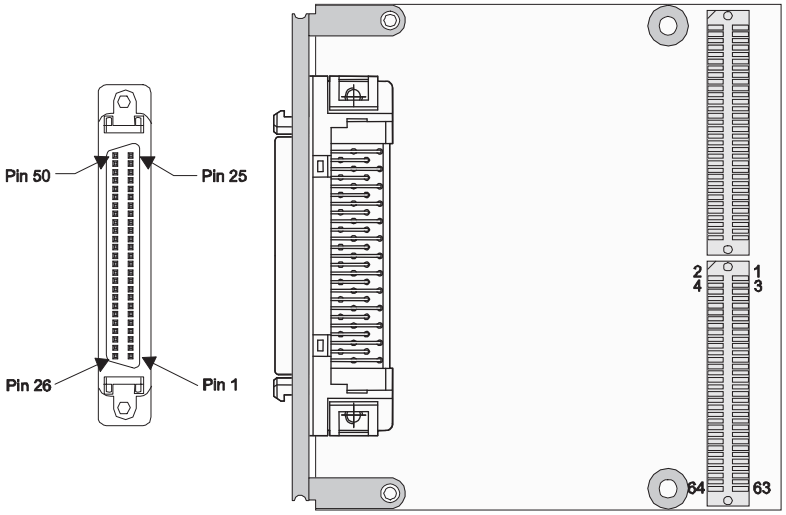

Figure 5-1 : Pin Assignment