

The Embedded I/O Company



TPCE001-TM

VG64 I/O Transition Module

Version 1.0

User Manual

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TPCE001-TM-10R

VG64 I/O Transition Module

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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#.

Access terms are described as:

W	Write Only
R	Read Only
R/W	Read/Write
R/C	Read/Clear
R/S	Read/Set

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1 Product Description

The TPCE001-TM is a Transition Module to connect TEWS PCI(e) carriers with a VG64 I/O connector to TEWS' PCI(e) carriers with a 68-pin AMPMODU flat cable connector, like TEWS TPCE276.

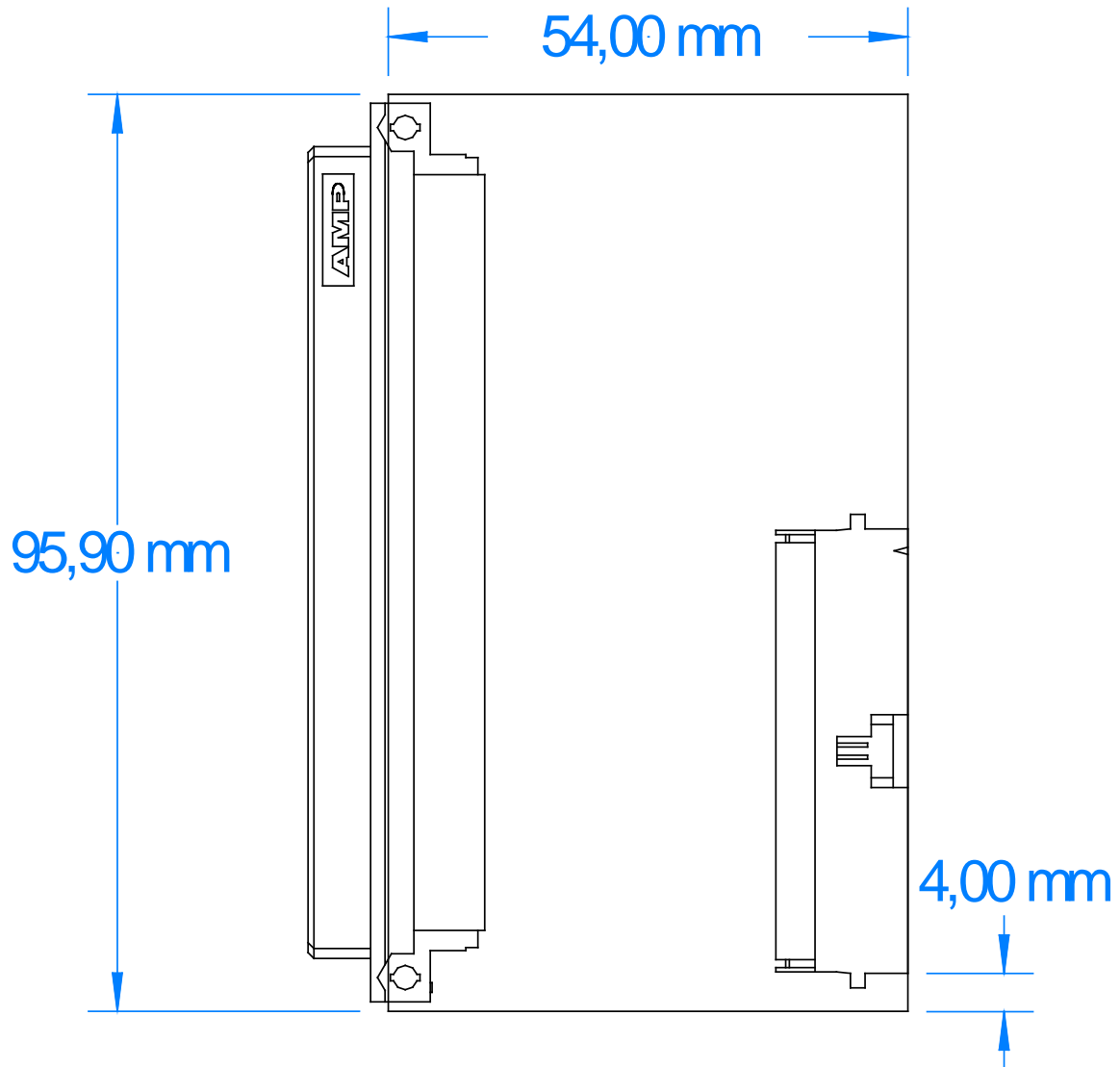


Figure 1-1 : TPCE001-TM Block Diagram

2 Technical Specification

On Board Connectors		
Side 1	Erni DIN 41612 2.54mm, Right Angle Female, Type R Connector	
Side 2	Tyco 0.050 x 0.100 AMPMODU System 50 Connector	
Physical Data		
Temperature Range	Operating	-40°C to +85°C
	Storage	-40°C to +85°C
MTBF	TPCE001-TM-10R: 2047000 h MTBF values shown are based on calculation according to MIL-HDBK-217F and MIL-HDBK-217F Notice 2; Environment: G _B 20°C. The MTBF calculation is based on component FIT rates provided by the component suppliers. If FIT rates are not available, MIL-HDBK-217F and MIL-HDBK-217F Notice 2 formulas are used for FIT rate calculation.	
Humidity	5 – 95 % non-condensing	
Weight	TPCE001-TM-10R: 33g	

Table 2-1 : Technical Specification

3 Handling and Operating Instructions

3.1 Installation



Before mounting the TPCE001-TM onto a carrier, be sure that the system is powered off.

4 Pin Assignments

4.1 Tyco 0.050 x 0.100 AMPMODU Connector

Connector Type	Tyco 0.050 x 0.100 AMPMODU System 50
Source & Order Info	Tyco Part-No.: 6-104069-8

Signal	Pin	Connector view	Pin	Signal
I/O 1	1		2	I/O 2
I/O 3	3		4	I/O 4
I/O 5	5		6	I/O 6
I/O 7	7		8	I/O 8
I/O 9	9		10	I/O 10
I/O 11	11		12	I/O 12
I/O 13	13		14	I/O 14
I/O 15	15		16	I/O 16
I/O 17	17		18	I/O 18
I/O 19	19		20	I/O 20
I/O 21	21		22	I/O 22
I/O 23	23		24	I/O 24
I/O 25	25		26	I/O 26
I/O 27	27		28	I/O 28
I/O 29	29		30	I/O 30
I/O 31	31		32	I/O 32
I/O 33	33		34	I/O 34
I/O 35	35		36	I/O 36
I/O 37	37		38	I/O 38
I/O 39	39		40	I/O 40
I/O 41	41		42	I/O 42
I/O 43	43		44	I/O 44
I/O 45	45		46	I/O 46
I/O 47	47		48	I/O 48
I/O 49	49		50	I/O 50
I/O 51	51		52	I/O 52
I/O 53	53		54	I/O 54
I/O 55	55		56	I/O 56
I/O 57	57		58	I/O 58
I/O 59	59		60	I/O 60
I/O 61	61		62	I/O 62
I/O 63	63		64	I/O 64
-	65		66	-
-	67		68	-

Table 4-1 : Tyco AMPMODU Connector Pin Assignment

4.2 DIN 41612 2.54mm - Right Angle Female Connector - Type R

Connector Type	DIN 41612 2.54mm, Right Angle Female Connector - Type R
Source & Order Info	ERNI 384047

Signal	Pin	Connector view	Pin	Signal
I/O 1	c1		a1	I/O 2
I/O 3	c2		a2	I/O 4
I/O 5	c3		a3	I/O 6
I/O 7	c4		a4	I/O 8
I/O 9	c5		a5	I/O 10
I/O 11	c6		a6	I/O 12
I/O 13	c7		a7	I/O 14
I/O 15	c8		a8	I/O 16
I/O 17	c9		a9	I/O 18
I/O 19	c10		a10	I/O 20
I/O 21	c11		a11	I/O 22
I/O 23	c12		a12	I/O 24
I/O 25	c13		a13	I/O 26
I/O 27	c14		a14	I/O 28
I/O 29	c15		a15	I/O 30
I/O 31	c16		a16	I/O 32
I/O 33	c17		a17	I/O 34
I/O 35	c18		a18	I/O 36
I/O 37	c19		a19	I/O 38
I/O 39	c20		a20	I/O 40
I/O 41	c21		a21	I/O 42
I/O 43	c22		a22	I/O 44
I/O 45	c23		a23	I/O 46
I/O 47	c24		a24	I/O 48
I/O 49	c25		a25	I/O 50
I/O 51	c26		a26	I/O 52
I/O 53	c27		a27	I/O 54
I/O 55	c28		a28	I/O 56
I/O 57	c29		a29	I/O 58
I/O 59	c30		a30	I/O 60
I/O 61	c31		a31	I/O 62
I/O 63	c32		a32	I/O 64

Table 4-2 : DIN 41612 2.54mm Connector Pin Assignment