The Embedded I/O Company



TA112

32 Pair Twinax Cable

Version 1.0

User Manual

Issue 1.0.0 May 2017

TEWS TECHNOLOGIES GmbH

 Am Bahnhof 7
 25469 Halstenbek, Germany

 Phone: +49 (0) 4101 4058 0
 Fax: +49 (0) 4101 4058 19

 e-mail: info@tews.com
 www.tews.com



 Bit is the initial block with octal RJ45 type connector proprietary to TEWS TECHNOLOGIES GmbH. A reproduction without written permission is forbidde TEWS TECHNOLOGIES GmbH has made a effort to ensure that this manual is accurate a complete. However TEWS TECHNOLOGIES GmbH is not liable for a damage arising out of the application or use of t device described herein. Style Conventions Hexadecimal characters are specified with prefix (i.e. 0x029E (that means hexadecimal value 029E)) For signals on hardware products, an ,Active Low represented by the signal name with # following, i 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
 effort to ensure that this manual is accurate a complete. However TEWS TECHNOLOGIES Gml reserves the right to change the product describ in this document at any time without notice. TEWS TECHNOLOGIES GmbH is not liable for a damage arising out of the application or use of t device described herein. Style Conventions Hexadecimal characters are specified with prefix (i.e. 0x029E (that means hexadecimal value 029E) For signals on hardware products, an ,Active Low represented by the signal name with # following, i 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
damage arising out of the application or use of t device described herein. Style Conventions Hexadecimal characters are specified with prefix (i.e. 0x029E (that means hexadecimal value 029E) For signals on hardware products, an ,Active Low represented by the signal name with # following, i 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
Hexadecimal characters are specified with prefix (i.e. 0x029E (that means hexadecimal value 029E) For signals on hardware products, an ,Active Low represented by the signal name with # following, i 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
i.e. 0x029E (that means hexadecimal value 029E) For signals on hardware products, an ,Active Low represented by the signal name with # following, i 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
represented by the signal name with # following, i 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
WWrite OnlyRRead OnlyR/WRead/WriteR/CRead/ClearR/SRead/Set
R Read Only R/W Read/Write R/C Read/Clear R/S Read/Set
R/W Read/Write R/C Read/Clear R/S Read/Set
R/C Read/Clear R/S Read/Set
R/S Read/Set
©2017 by TEWS TECHNOLOGIES GmbH
All trademarks mentioned are property of their respective owned



Issue	Description	Date	
1.0	First Issue	May 2017	



Table of Contents

1	PRODUCT DESCRIPTION	. 5
2	CABLE PIN ASSIGNMENT	. 6
3	ASSEMBLY DRAWING	. 7

List of Figures

FIGURE 3-1 : TA112 ASSEMBLY DRAWING	

List of Tables

TABLE 2-1 : TA112 CABLE 1 TO X2 PIN ASSIGNMENT	TABLE 2-1	: TA112 CABLE	1 TO X2 PIN ASSIGNMENT.	
--	-----------	---------------	-------------------------	--



1 **Product Description**

The TA112 is a 32 Pair Twinax Ribbon cable that allows easy access to TEWS modules with Samtec Rugged EdgeRate® female connector like TXMC638 or TXMC636. It provides Pin 1 to Pin N-1 connection between its connectors. Always two wires are constructed as twinax cable.

The differential impedance of the twinax cable is 100 Ohm and the operating temperature is -25 °C to +125°C.

The TA112 32 Pair Twinax cable in conjunction with a TA206 8 Port RJ45 terminal block could be used for prototyping and also for series.

The cable length is 0.6 m and the permissible maximum voltage for the TA112 is 30V DC.



2 Cable Pin Assignment

The 32 Pair Twinax cable provides a Pin 1 to Pin N-1 connection between the ERDP male connectors P1 and P2. Always two pins are connected to one Twinax cable.

	P1	P2
	ERDP male	
usage	Pin No.	Pin No.
CASE	1	97
Diff. Pair 01	3	95
	5	93
CASE	7	91
Diff. Pair 03	9	89
	11	87
CASE	13	85
Diff. Pair 05	15	83
	17	81
CASE	19	79
Diff. Pair 07	21	77
	23	75
CASE	25	73
Diff. Pair 09	27	71
	29	69
CASE	31	67
Diff. Pair 11	33	65
	35	63
CASE	37	61
Diff. Pair 13	39	59
Dill. 1 dil 13	41	57
CASE	43	55
Diff. Pair 15	45	53
	47	51
CASE	49	49
Diff. Pair 17	51	47
	53	45
CASE	55	43
Diff. Pair 19	57	41
	59	39
CASE	61	37
Diff Doir 24	63	35
Diff. Pair 21	65	33
CASE	67	31

P1	P1	P1
F1	ERDP male	
usage	Pin No.	Pin No.
CASE	2	98
	4	96
Diff. Pair 02	6	94
CASE	8	92
	10	90
Diff. Pair 04	12	88
CASE	14	86
Diff. Pair 06	16	84
Dill. Pair 06	18	82
CASE	20	80
Diff. Pair 08	22	78
Dill. Pair 06	24	76
CASE	26	74
Diff Dair 10	28	72
Diff. Pair 10	30	70
CASE	32	68
Diff. Pair 12	34	66
Dill. Fall 12	36	64
CASE	38	62
Diff. Pair 14	40	60
Diii. Faii 14	42	58
CASE	44	56
Diff. Pair 16	46	54
	48	52
CASE	50	50
Diff. Pair 18	52	48
Dill. Fall To	54	46
CASE	56	44
Diff. Pair 20	58	42
	60	40
CASE	62	38
Diff. Pair 22	64	36
	66	34
CASE	68	32



	P1	P2	P1	P1
	ERDP male	ERDP male		ERDP male
usage	Pin No.	Pin No.	usage	Pin No.
Diff. Pair 23	69	29	Diff. Pair 24	70
JIII. Fall 23	71	27	Dill. Pall 24	72
CASE	73	25	CASE	74
oiff. Pair 25	75	23	Diff. Pair 26	76
JIII. Fall 20	77	21	Dill. Pall 20	78
CASE	79	19	CASE	80
Viff Dair 27	81	17	Diff Dair 29	82
oiff. Pair 27	83	15	Diff. Pair 28	84
CASE	85	13	CASE	86
)iff. Pair 29	87	11	Diff. Pair 30	88
лп. Fall 29	89	9	Dill. Pail 30	90
CASE	91	7	CASE	92
Diff. Pair 31	93	5	Diff. Pair 32	94
nii. Faii 31	95	3		96
CASE	97	1	CASE	98

Table 2-1: TA112 Cable 1 to X2 Pin Assignment

Assembly Drawing



