TEWS
TECHNOLOGIES

THE EMBEDDED I/O COMPANY

PRODUCT OVERVIEW   ISSUE 3

ABOUT TEWS TECHNOLOGIES

TEWS TECHNOLOGIES is a leading solutions provider of embedded I/O and CPU products based on open architecture standards such as PMC, IndustryPack® (IP), CompactPCI, standard PCI, VME, and AMC. TEWS has more than 30 years of experience designing and building turn-key embedded interface solutions using the philosophy to listen and respond to our customers' needs.

Using this 'customer first' approach, TEWS has developed a large number of standard and custom products for applications in industrial control, telecommunication infrastructure, medical equipment, traffic control and aerospace/defense. TEWS' line of embedded I/O solutions is available worldwide through a global network of distributors.

QUALITY ASSURANCE / WARRANTY

TEWS operates three subsidiaries to meet global demand for pre and post sales support, reduced development time, long term product availability, and complete product lifecycle management. TEWS is committed to continuously improving the quality of our products and services.
As a reflection of our commitment to quality, TEWS has implemented and received ISO9001:2000 certification. All TEWS' products feature a five-year limited warranty.

ROHS / WEEE COMPLIANCY

TEWS TECHNOLOGIES believes in conducting business in a manner that respects the environment and consequently has embraced the RoHS regulations of the European Community. TEWS now produces RoHS-compliant versions of our products, provided all required components are available RoHS-compliant. Products which do not have RoHS-compliant components available may be redesigned to meet the regulations on a case-by-case basis. Redesigned product will match the original product in form, fit and/or function whenever possible. Non-compliant products will continue to be available for all applications which are exempt from the RoHS directives and have a continuing requirement for leaded solder. More information regarding RoHS compliance is available on the specific product pages at www.tews.com.

SOFTWARE SUPPORT

Software support is a critical and defining component of the TEWS' I/O product offering. Our modular hardware designs are coupled with extensive software drivers and support for most major real-time and server operating systems such as VxWorks, Windows XP/XPE/2000, Linux, LynxOS, and QNX6. Supported CPU architectures are Intel, PowerPC and 68k (for IndustryPack only). For IndustryPack carriers and modules, TEWS has developed a layered driver concept that includes both a carrier driver layer and an IP module driver layer.
All TEWS' IndustryPack carriers are supported directly by the carrier driver, and a generic driver is included for integration of third party products.
A key element of our software is our support staff. All TEWS' support engineers are professionally trained to ensure in-depth support for software drivers and integration.

C P U   C A R R I E R S

TEWS' PowerPC based VME Single Board Computers with IndustryPack and PMC sites deliver both high-performance processing and configurable I/O solutions in a single VME slot. In addition, TEWS' SBCs provide the ideal upgrade path for current 68K-based IndustryPack carriers.

CPU CARRIERS	Form Factor	Processor	-40°C to 85°C	Debug PROM	SDRAM	Flash	Ethernet	SCSI	Serial Ports	I/O Support	I/O Connector	Software
TVME8240[1]	VME	MPC8245 300 MHz	(●)	2 MB	64 MB	8 MB	●	●	2	4 x IP	50pin ribbon	1) 2) 3) 4) 5)
TVME8300[1]	VME64x	MPC8245 300 MHz		1 MB	64 MB	8 MB	●		2	4 x IP	P0/P2	1) 2) 3)
TVME8400[1]	VME64x	MPC8245 300 MHz	(●)	1 MB	64 MB	8 MB	●		2	2 x PMC	P2	1) 2) 3)
Notes	[1] Local PCI expansion connector				Software: 1) Linux 2) VxWorks 3) LynxOS 4) pSOS 5) OS-9							
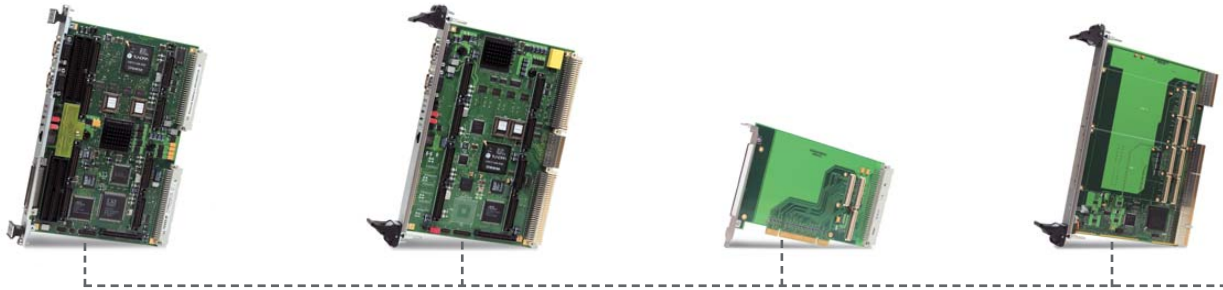
P M C   C A R R I E R S

TEWS offers a complete line of PMC carrier boards for 3U and 6U CompactPCI as well as standard PCI. Our PMC carriers provide high-performance and high-density I/O solutions in addition to simplifying the integration process.

PMC CARRIERS	Form Factor	PMC Slots	-40°C to 85°C	I/O Connector	PCI I/O Signaling Voltage	Hot Swap Capability	Bridge	Bus Frequency	Bus Width
TCP260	cPCI 6U	2		PMC front cPCI J3/J5	3.3V 5V	●	21154	33/66 MHz	32/64 bit
TCP261	cPCI 6U	2		PMC front cPCI J3/J4	3.3V 5V	●	21154	33/66 MHz	32/64 bit
TCP270	cPCI 3U	1	●	PMC front J2	3.3V 5V			33 MHz	32 bit
TPCI270	PCI	1	●	PMC front rear I/O	3.3V 5V			33 MHz	32 bit
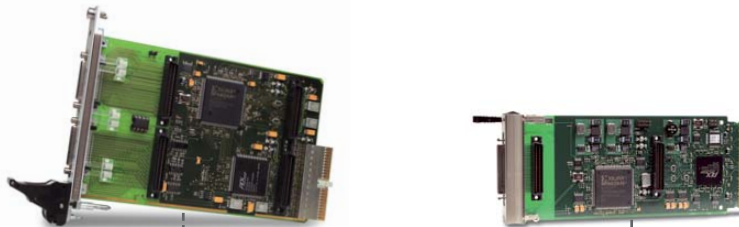
I P   C A R R I E R S

When combined with our extensive line of IndustryPack modules, TEWS' IndustryPack carriers offer maximum
I/O density for VME, CompactPCI, and PCI systems. The ability to mix and match IndustryPack modules on
TEWS' carriers customizes I/O and saves valuable slot space.

IP CARRIERS	Form Factor	IP Slots	-40°C to 85°C	I/O Connector	32 MHz Support
TVME200	VME 6U	4	●	stacked 50pin ribbon	
TVME201	VME 6U	4	●	HD50	
TVME220	VME64x 6U	4	●	P0/P2	
TVME230[1]	VME 6U	4	●	HD50	●
TVME210	VME 3U	2	●	50pin ribbon	
TVME211	VME 3U	2	●	stacked 50pin ribbon	
TCP201	cPCI 6U	4	●	HD50	●
TCP220	cPCI 6U	4	●	J4/J5	●
TCP211	cPCI 3U	2	●	stacked 50pin ribbon	●
TCP212	cPCI 3U	2	●	CHAMP-50	●
TCP213	cPCI 3U	2	●	J2	●
TPCI200	PCI	4	●	50pin ribbon	●
TPCI100	PCI	2	●	50pin ribbon	●
NEW TAMC100	AMC	1	●	HD50	●
Notes	[1] Local PCI expansion card for CPU boards				

USER-PROGRAMMABLE FPGA

TEWS' user-programmable FPGA modules provide a cost effective solution that allows customers to implement their own logic design. TEWS uses the latest high-density FPGAs available, and additionally can customize the products for OEM requirements.

FPGA	Form Factor	-40°C to 85°C	I/O Channel / Signal Level	Interrupts	I/O Connector	Software
TIP630[1]	IP	●	48/TTL	●		●
TPMC630[2]	PMC	●	64/TTL or 32/RS422	●	HD68, P14	●
NEW TCP630[2]	cPCI	●	64/TTL or 32/RS422	●	PIM-Slot /J2	●
Notes	[1] Xilinx XC2S200, supported by free Xilinx WebPack Software					
	[2] Xilinx XC2S300E, supported by free Xilinx WebPack Software					
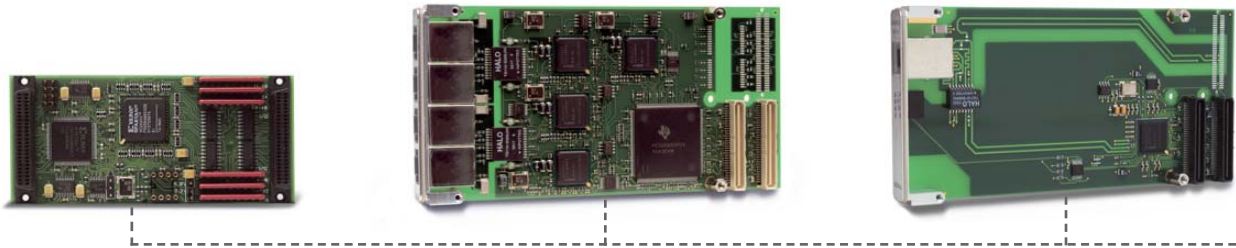
ETHERNET

As part of its expanding line of embedded I/O products,
TEWS introduces a fast growing range of networking products.

ETHERNET	Form Factor	Conduction Cooled	-40°C to 85°C	Channel	Controller	1000BaseTX	10/100BaseT	10Base2	Software
NEW TPMC382	PMC	●	●	4	82551		●		●
TPMC880	PMC			1	21143		●	●	●
TPMC881	PMC		(●)	1	82551		●		●
TPMC882	PMC		●	4	82551		●		●
TPMC883	PMC			1	82545EM	●	●		●
TPMC884	PMC			2	82546EB	●	●		●
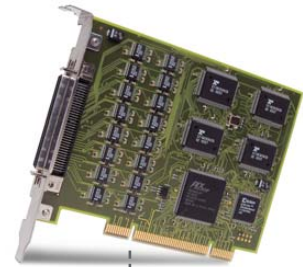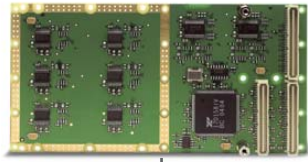
COMMUNICATION

As part of our growing commitment to the embedded I/O marketplace, TEWS continues to extend its product range of I/O and CPU solutions based on IndustryPack, PMC, CompactPCI and VME standards.

The modules are designed for applications in transportation, military/aerospace, communications, and process control. Solutions are available with a large choice of channel count, throughput, form factor, and operating temperatures.

COMMUNICATION	Form Factor	Conduction Cooled	Channel	-40°C to 85°C	RS232	TTL	RS422	RS485	Programmable Interface	FIFO Bytes	max. Data Rate	ESD Protection	Async./Sync.	Isolation	I/O Connector	Software
TIP302[1]	IP		3			●							● / ●			●
NEW TIP360[2]	IP		4	●		●							● / ●			●
TIP865	IP		4		●	●	●	●			2 Mbps		● / ●			●
TIP866	IP		8	(●)	●	●	●			64	460.8 kbps	●	● / −			●
TIP867	IP		8					●		8	2 Mbps	●	● / ●			●
NEW TPMC363[3]	PMC	●	4	●	●		●		●	512	10 Mbps	●	● / ●		P14	●
TPMC371	PMC	●	8	●	●		●			64	5.5 Mbps	●	● / −		P14	●
TPMC372	PMC	●	4	●	●		●			64	5.5 Mbps	●	● / −		P14	●
NEW TPMC375	PMC	●	8	●	●		●	●	●	64	5.5 Mbps	●	● / −		P14	●
NEW TPMC376	PMC	●	4	●	●		●	●	●	64	5.5 Mbps	●	● / −		P14	●
NEW TPMC460	PMC		16	●	●		●			64	5.5 Mbps	●	● / −		HD68, P14	●
TPMC461	PMC		8	●	●		●			64	5.5 Mbps	●	● / −		HD50, P14	●
TPMC462	PMC		4	●	●		●			64	5.5 Mbps	●	● / −		HD50, P14	●
TPMC463	PMC		4	●	●		●			64	5.5 Mbps	●	● / −		RJ45, P14	●
NEW TPMC465	PMC		8	●	●		●	●	●	64	5.5 Mbps	●	● / −		HD50, P14	●
NEW TPMC466	PMC		4	●	●		●	●	●	64	5.5 Mbps	●	● / −		HD50, P14	●
NEW TPMC467	PMC		4	●	●		●	●	●	64	5.5 Mbps	●	● / −		RJ45	●

Notes   [1] Based on MC68302   [2] Based on MC68360   [3] FPGA based design with programmable multiprotocol transceivers/modules are successors for discontinued TPMC362, TPMC862, and TCP862
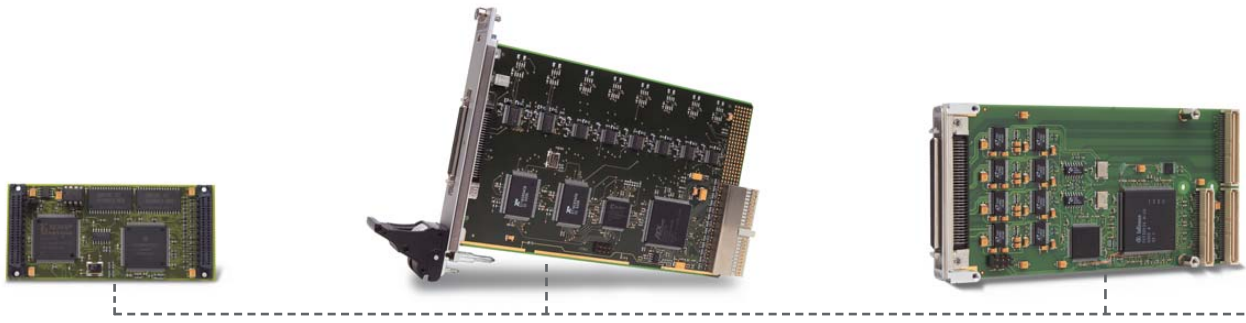
COMMUNICATION (continued)

Some of the new marked modules provide high performance RS232/RS422/RS485 serial channels which can be individually programmed to operate as RS232, RS422 or RS485 full/half duplex interfaces. In addition, programmable termination is provided for the RS422/RS485 interfaces.

| COMMUNICATION	Form Factor	Conduction Cooled	Channel	-40°C to 85°C	RS232	TTL	RS422	RS485	Programmable Interface	FIFO Bytes	max. Data Rate	ESD Protection	Async./Sync.	Isolation	I/O Connector	Software
TPMC860	PMC		4	●	●					64	460.8 kbps	●	●/-	●	DB25, P14	●
TPMC861	PMC		4	●			●	●		128	460.8 kbps	●	●/-	●	DB25, P14	●
TPMC863 [3]	PMC		4	●	●		●		●	512	10 Mbps	●	●/●		HD68, P14	●
TPMC866	PMC		8	(●)	●		●	●		64	460.8 kbps	●	●/-		HD50, P14	●
TPMC868	PMC		16	(●)	●		●			64	460.8 kbps	●	●/-		HD68, P14	●
TPMC917 [4]	PMC		4		●					64	115.2 kbps	●	●/-		DB25, P14	●
TCP460	cPCI		16	●	●		●			64	5.5 Mbps	●	●/-		HD68, J2	●
TCP461	cPCI		8	●	●		●			64	5.5 Mbps	●	●/-		HD50, J2	●
TCP462	cPCI		4	●	●		●			64	5.5 Mbps	●	●/-		HD50, J2	●
TCP463	cPCI		4	●	●		●			64	5.5 Mbps	●	●/-		RJ45, J2	●
TCP465	cPCI		8	●	●		●	●	●	64	5.5 Mbps	●	●/-		HD50, J2	●
TCP466	cPCI		4	●	●		●	●	●	64	5.5 Mbps	●	●/-		HD50, J2	●
TCP467	cPCI		4	●	●		●	●	●	64	5.5 Mbps	●	●/-		RJ45	●
TCP863 [3]	cPCI		4	●	●		●		●	512	10 Mbps	●	●/●		HD68, J2	●
TCP866	cPCI		8	●	●		●			64	921.6 kbps	●	●/-		HD50, J2	●
TPCI868	PCI		16		●					64	921.6 kbps	●	●/-		HD68	●
Notes	[3] FPGA based design with programmable multiprotocol transceivers/modules are successors for discontinued TPMC362, TPMC862, and TCP862 [4] Plus 4 MB SRAM with battery backup															
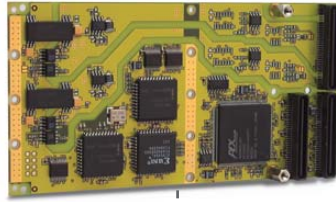
FIELDBUS

TEWS supports a wide range of standard fieldbus solutions for CAN, SERCOS, LON, ARCNET, and INTERBUS. These include conduction cooled, high-density, and fault-tolerant CAN interfaces on IndustryPack, PMC, and PC104+.

| FIELDBUS	Form Factor	Conduction Cooled	Channel	-40°C to 85°C	Fieldbus	Physical Interface	Isolation	I/O Connector	Software
TIP810[1]	IP		1	●	CAN	CAN High Speed, RS485	●		●
TIP811	IP		1		INTERBUS	RS422	●		●
TIP812	IP		1	●	SERCOS	optical fiber, RS485	●	DB9	●
TIP813	IP		1		LON	RS485, FTT-10A	●	DB9	●
TIP815	IP		1		ARCNET	Coax, RS485	●		●
TIP816[2]	IP		1	●	CAN	CAN High Speed, RS485	●		●
TIP818[2]	IP		1	●	CAN	fault-tolerant transceiver	●		●
TIP903[2]	IP		3		CAN	CAN High Speed			●
TPMC310[1]	PMC	●	2	●	CAN	CAN High Speed	●	P14	●
TPMC316[2]	PMC	●	2	●	CAN	CAN High Speed, RS485	●	P14	●
TPMC810[1]	PMC		2	●	CAN	CAN High Speed	●	DB9, P14	●
TPMC812	PMC		1	●	SERCOS	optical fiber, RS485	●	DB15	●
TPMC813	PMC		1	●	LON	RS485, FTT-10A	●	DB9	●
TPMC815	PMC		1	●	ARCNET	Coax, RS485	●	BNC, DB9	●
TPMC816[2]	PMC		2	●	CAN	CAN High Speed, RS485	●	DB9, P14	●
TPMC821	PMC		1		INTERBUS	RS422	●	DB9, P14	●
TPMC901[2]	PMC		6		CAN	CAN High Speed		DB25	●
NEW THP815	PC104+		1	●	ARCNET	Coax, RS485	●	BNC, DB9	●
Notes	[1] Based on SJA1000 [2] Based on I82527								
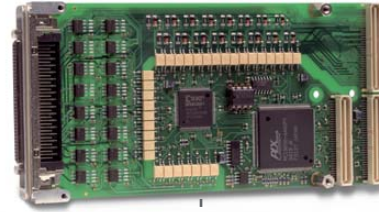
DIGITAL I/O

With one of the largest digital I/O offerings for embedded applications, TEWS is able to provide discrete solutions with interfaces for TTL, differential I/O, FPGA-based reconfigurable I/O, opto-isolated interfaces, and high/low side switches.

DIGITAL I/O	Form Factor	Channel In/Out	-40°C to 85°C	Signal Level	Output Current	Interrupts	Isolation	I/O Connector	Software
TIP600	IP	16/-		24V		●	●		●
TIP605	IP	16/-	●	24V		●	●		●
TIP606[1]	IP	16/-	●	28V		●	●		●
TIP610	IP	20		TTL		●			●
TIP620[2]	IP	48	●	TTL		●			●
TIP670	IP	8/8		24V	0.5A	●	●		●
TIP672	IP	24	(●)	RS422		●			●
TIP675	IP	48	●	TTL		●			●
TIP700	IP	-/16		6V-48V	0.5A		●		●
TIP710	IP	-/16	●	6V-48V	1.0 A		●		●
TPMC600	PMC	32/-	●	24V		●	●	HD50, P14	●
TPMC670	PMC	16/16	(●)	24V	0.5A	●	●	HD50, P14	●
TPMC671	PMC	16/16	(●)	24V	0.5A	●	●	HD68, P14	●
TPMC680[3]	PMC	64	●	TTL		●		HD68, P14	●
TPMC681[4]	PMC	64	●	TTL		●		HD68, P14	●
NEW TPMC682[5]	PMC	64	●	TTL		●		HD68, P14	●
TPMC700	PMC	-/32	(●)	6V-48V	0.5A		●	HD50, P14	●
Notes	[1] For Avionic Applications [2] Emulates two MC68230 [3] Byte I/O [4] Bit I/O [5] FIFO and Handshake								
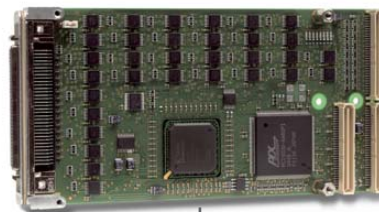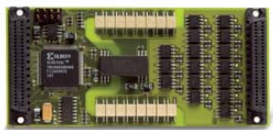
A N A L O G   I / O

Optimized for applications in industrial, transportation, and military/defense, TEWS' analog I/O offering includes A/D and D/A solutions, 12 bit and 16 bit resolutions, opto-isolated interfaces, simultaneous sampling, and sequencer modes for higher performance.

ANALOG I/O	Form Factor	-40°C to 85°C	A / D					
			A/D SE/DIFF	Resolution	Voltage Range	max. Throughput	Simult. Sampl.	Sequencer
TIP500	IP	●	16/8	12 bit	±10V / ±5V / ±2V / ±1V or ±10V / ±5V / ±2.5V / ±1.25V	100 ks		
TIP501	IP	●	16/8	16 bit	±10V / ±5V / ±2V / ±1V or ±10V / ±5V / ±2.5V / ±1.25V	69 ks		
TIP550	IP	●						
TIP551	IP	●						
TIP570	IP	●	16/8	12 bit	±10V	100 ks		
TIP830	IP		8/-	12/16 bit	±10V	40 ks	●	
TIP840	IP	●	16/8	12 bit	±10V / ±1V / ±0.1V or ±10V / ±5V / ±2.5V / ±1.25V	100 ks		
TIP845	IP	●	48/24	14 bit	±10V / ±5V / ±2.5V / ±1.25V	400 ks		●
TIP850	IP	●	16/8	12 bit	±10V / ±1V / ±0.1V or ±10V / ±5V / ±2.5V / ±1.25V	100 ks		
TPMC500	PMC	●	32/16	12 bit	±10V / ±5V / ±2V / ±1V or ±10V / ±5V / ±2.5V / ±1.25V	100 ks		●
TPMC501	PMC	●	32/16	16 bit	±10V / ±5V / ±2V / ±1V or ±10V / ±5V / ±2.5V / ±1.25V	80 ks		●
TPMC550	PMC	●						
TPMC551	PMC	●						
TPMC851[1]	PMC	●	32/16	16 bit	±10V / ±5V / ±2.5V / ±1.25V	250 ks		●
Notes	[1] Plus 16 bit TTL I/O							

D / A

D/A	Resolution	Voltage Range	max. Throughput	Sequencer	Isolation	I/O Connector	Software
					●		●
					●		●
8	12 bit	±10V or 0V to 10V	77 ks		●		●
4	16 bit	±10V or 0V to 10V	100 ks		●		●
8	12 bit	±10V	200 ks		●		●
							●
							●
							●
4	12 bit	±10V	100 ks				●
					●	HD50, P14	●
					●	HD50, P14	●
8	12 bit	±10V or 0V to 10V	100 ks	●	●	DB25, P14	●
8	16 bit	±10V or 0V to 10V	100 ks	●	●	DB25, P14	●
8	16 bit	±10V	100 ks	●		HD68	●

M O T I O N   C O N T R O L

TEWS offers a wide range of embedded motion control solutions for PMC and IndustryPack standards. These include standard servo controllers, absolute encoder (SSI) interfaces, incremental encoder interfaces, quadrature decoders, and synchro/resolver-to-digital solutions.

| MOTION CONTROL	Form Factor	Channel	-40°C to 85°C	Incremental	SSI	Synchro/Resolver	DAC	ADC	Digital I/O	Isolation	I/O Connector	Software
TIP102[1]	IP	2/1		●			●	●	●	●		●
TIP111[1]	IP	2/1			●		●	●	●	●		●
TIP114	IP	10			●					●		●
TIP115[4]	IP	5			●					●		●
TIP116[2]	IP	4	●	●								●
NEW TIP119	IP	6		●								●
TIP120[3]	IP	2/1		●			●		●	●		●
TIP150	IP	2/1	(●)			●						●
NEW TPMC117[2][4]	PMC	6	●	●	●				●	●	HD68	●
TPMC118	PMC	6		●			●		●	●	HD68	●
TPMC150	PMC	4/3/2/1	●			●			●		HD68	●
Notes	[1] Transition Module required [2] General Purpose Counter [3] Based on LM628/LM629 [4] Supports 'Listen Only' Mode											

M E M O R Y

TEWS' memory solutions include SRAM and Flash on IndustryPack modules, and SRAM on PMC modules.

MEMORY	Form Factor	-40°C to 85°C	Memory	Size	Battery Backup	Software
TIP250	IP	●	Flash	8 MB		●
TIP255	IP	(●)	SRAM	2 MB	●	●
TPMC917[1]	PMC		SRAM	4 MB	●	●
Notes	[1] Plus 4 channel serial interface (RS232)					

PC CARD / CARDBUS

For embedded applications requiring PC Card (PCMCIA) or CardBus solutions, TEWS offers both PMC-to-PC Card and cPCI-to-PC Card adapters to allow the use of standard PC Cards in VME, CompactPCI, and PCI edge card systems.

PC CARD/CARDBUS	Form Factor	-40°C to 85°C	Sockets/Card Type	PC Card/CardBus Voltage	Software
TPMC871	PMC		1 x Type I/II	3.3V/5V	●
TPMC872	PMC	●	1 x Type I/II and 1 x Type I/II/III	3.3V/5V	●
TCP872	cPCI	●	2 x Type I/II or 1 x Type III	3.3V/5V	●
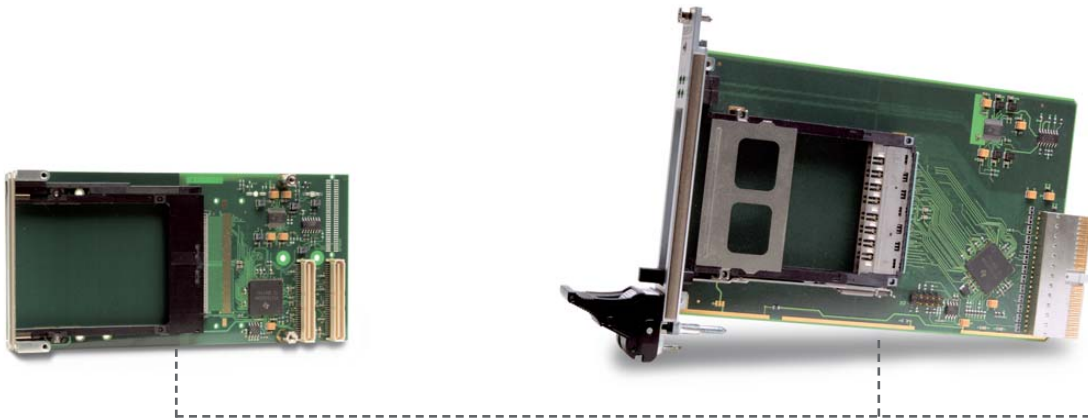
TELECOM

TEWS provides a high performance hardware platform for E1/T1 telecommunication applications. Complete integrated solutions, including a wide variety of communication protocol stacks, are available in cooperation with our software partners.

TELECOM	Form Factor	Ports	Processor	Flash	SDRAM	I/O Connector	Software
TPMC402	PMC	2 x E1/T1	MPC860P/80 MHz	4 MB	32 MB	RJ45	[1]
Notes	[1] Ask for protocol support						

TRANSITION MODULES

For function and IndustryPack/PMC specific connectivity, TEWS offers a wide range of transition modules. These include universal and product-specific transition modules, DIN rail mount modules, and high-density serial transition modules.

TEWS' IndustryPack carriers for VME and CompactPCI support rear I/O connectivity in tandem with rear transition modules. These transition modules are available with different connector styles and different mechanical dimensions.

TRANSITION MODULES	Form Factor	Supported Products	Interface	I/O Connector	-40°C to 85°C	Front Panel
TVME001-TM	VME64x	IP Carrier 6U	P0/P2	50pin ribbon cable	●	
TVME002-TM	VME64x	IP Carrier 6U	P0/P2	HD50 female	●	●
TCP001-TM	cPCI	IP Carrier 6U	RJ4/RJ5	50pin ribbon cable	●	
TCP002-TM	cPCI	IP Carrier 6U	RJ4/RJ5	HD50 female	●	●
TCP010-TM	cPCI	IP Carrier 3U	RJ2	50pin ribbon cable	●	
TCP011-TM	cPCI	IP Carrier 3U	RJ2	50pin ribbon cable	●	●
TCP012-TM	cPCI	IP Carrier 3U	RJ2	CHAMP-50 female	●	●
NEW TCP030-TM	cPCI	PMC Carrier 3U	RJ2	HD68	●	●
TIP001-TM	Universal	IP	50pin	50pin screw terminal		●
TIP570-IO	DIN Rail Mount	TIP570	50pin	50pin terminal with lever	●	
TIP866-IO	DIN Rail Mount	TIP866/TIP867	50pin	DB9 male		
TIP866-TM-10	6U	TIP866/TIP867	50pin	DB25 female		●
TIP866-TM-20	6U	TIP866/TIP867	50pin	shielded RJ45		●
TIP866-TM-30	6U	TIP866/TIP867	50pin	4pin RJH		●
TPMC866-IO	DIN Rail Mount	TPMC866	HD50	DB9 male		
TPMC866-TM-10	6U	TPMC866	HD50	DB25 female		●
TPMC866-TM-20	6U	TPMC866	HD50	shielded RJ45		●
TPMC866-TM-30	6U	TPMC866	HD50	4pin RJH		●

PIM CARRIERS

The PIM specification simplifies rear I/O for PMC modules that reside on CompactPCI or VME64x carrier cards, connecting via a clearly defined pin-out from PMC connector P14 through the CompactPCI or VME64x backplane, and passing to the PIM mezzanine carrier at the rear of the backplane.

Connections may then be customized with the use of different PIM modules on the PIM carrier.

PIM CARRIERS	Form Factor	Support	Interface	-40°C to 85°C	Front Panel
TCP020-TM	cPCI	PMC Carrier 6U	RJ3/RJ5	●	●
TCP021-TM	cPCI	PMC Carrier 6U	RJ3/RJ4	●	●
NEW TCP040-TM	cPCI	PMC Carrier 3U	RJ2	●	●
TVME020-TM	VME64x	PMC Carrier 6U	P2	●	●

PIM I/O MODULES

The standard single-width PIM Modules can be used with any PIM carrier. They offer easy access to the PMC back I/O lines of PMC carrier with back I/O.

PIM I/O MODULES	Support	I/O Connector	-40°C to 85°C	Front Panel
TPIM001	General Purpose	HD50 female	●	●
TPIM002	General Purpose	HD68 female	●	●
NEW TPIM003	TPMC460/TPMC630/TPMC868	HD68 female	●	●
NEW TPIM004	TPMC382/TPMC882	4x RJ45	●	●
NEW TPIM005	TPMC363/TPMC863	HD68 female	●	●

ACCESSORIES

To facilitate system integration, TEWS' offers a variety of accessories such as cable and terminal blocks for PMC, cPCI, PCI and VME modules. For a complete listing visit www.tews.com.

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