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# IPM-429

## ARINC-429/575 IPACK Module

### SPECIFICATIONS

#### Number of channels

- 2, 4, 8 or 16 channels, various Tx/Rx combinations

#### Discrete Input/Output (DIO)

- 8 independently configurable to Input or Output
- Transition detection on discrete Inputs (DIO)

#### Channel speed

- Two independent speeds, configurable per channel
- Tx and Rx Speed Range: 3906 bps to 125 kbps

#### Error Injection and Detection

- Parity, +/- 1 bit, gap length

#### Time Synchronization

- 32-bit Timetag, Resolution: 1 microsecond, Accuracy: 1 microsecond
- IRIG-B AM, Digital and 1-PPS inputs

#### IPACK Module bus clock

- 32 MHz

#### Physical dimensions

- IPack Standard Single Size
- 3.9" x 1.8" (9.906 cm x 4.572 cm)

#### Environmental

- Standard Operating Temperature: 0°C to 70°C
- Extended Operating Temperature: -40°C to 85°C (Optional)
- Relative Humidity for operation: 0 to 95% (non-condensing)

#### Power consumption

- 5V @ 800 mA MAX

#### Electrical

Standard ARINC-429 Voltage Level:

- Receive:  $\pm 6.5$  to  $\pm 13V$  &  $\pm 2.5V$  (Null)
- Transmit:  $\pm 10V$  &  $0V$

#### Additional features

- Label Selection and Word Filtering
- Selectable 25 or 32-bit word length

### Supported IndustryPACK Carrier Boards

The IPM-429 is a standard IndustryPack (IPack) module that can be used with MAX Technologies' PCI, CPCI, VME and PXI intelligent carrier boards. The IPM-429E/ELB module can also be used with MAX Technologies' MAXVME-6400 VME-64x dumb carrier board or a third party carrier boards supporting 32-MHz IPack modules.

### Software

<b>MAXIM</b>	MAXIM is a powerful and easy-to-use test & measurement GUI application for Windows 2000/XP
<b>MX Foundation</b>	MX-Foundation is a multi-protocol high-level API that takes full advantage of the MAX Technologies' intelligent carrier boards. MX-Foundation is available for Windows and Linux.

### Ordering Information

Part Number	IPM-429-E Description	Part Number	IPM-429-ELB Description
MAX-IP-200110	4TX-4RX, 8 DISCRETE, ERR INJ, IRIG-B	MAX-IP-200805	16TX, 8 DISCRETE, Tx loopback verification IRIG-B
MAX-IP-200109	8TX-8RX, 8 DISCRETE, ERR INJ, IRIG-B	MAX-IP-200807	8TX, 8 DISCRETE, Tx loopback verification IRIG-B
MAX-IP-200101	16RX, 8 DISCRETE, ERR INJ, IRIG-B	MAX-IP-200809	8TX-8RX, 8 DISCRETE, Tx loopback verification IRIG-B
MAX-IP-200105	16TX, 8 DISCRETE, ERR INJ, IRIG-B	MAX-IP-200810	4TX-4RX, 8 DISCRETE, Tx loopback verification IRIG-B

*Additional configurations, extended temperature versions and accessories are available. Please contact us to inquire.*

[www.maxt.com](http://www.maxt.com)

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