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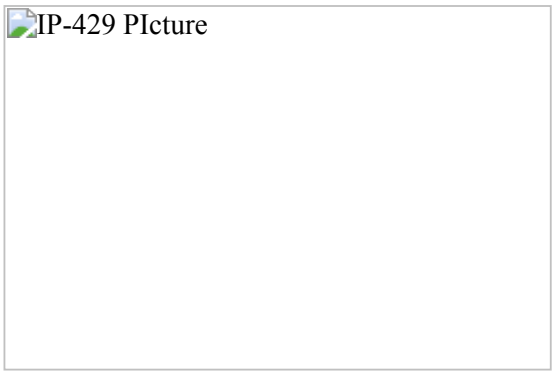
Find the *Abaco Systems / SBS / Greenspring IP-429HD-88* at our website: *Click HERE*

ARINC-429

IP-429 High Density IP Module

Features

- Up to 16 ARINC 429 channels
- Intelligent module with buffering
- VME, VXI, PCI, CompactPCI, PC/AT and PC/104 carriers available
- High-level API available for WindowsNT, 98 and DOS on PCI, CompactPCI or PC/AT carriers.
- 64 KB true dual-port RAM
- Up to 96 channels in single slot
- Fully independent channel operation
- Programmable Receive input thresholds
- Adjustable Transmit output voltages
- Error injection, error detection
- 32-bit Time-tagging
- Extended temperature/Ruggedized option



Condor's IP-429HD is an intelligent, high-density IP Module (IndustryPack-compatible) interface for ARINC related avionics protocols that provides up to 8 receive and 8 transmit, fully independent, ARINC 429 channels. Standard IP-429HD features include programmable selection of data rates, parity, on-board buffering modes, error detection and automatic slew rate adjustment.

The IP-429HD has a parametric option that adds error injection, programmable input thresholds on Receive channels and adjustable output voltage on Transmit channels. Other configuration options include Rx/Tx channel count and a mix of ARINC 429 with other avionics protocols (ARINC 561 6-wire or ARINC 573/717).

IP modules are industry standard I/O mezzanine boards (about the size of a business card), designed for mounting on host carrier boards to enable cross-platform portability. Up to six IP-429HD modules can be mounted on a single carrier board, providing up to 48 Receive and 48 Transmit ARINC 429/575 channels in one slot. Host carrier boards are available for VME, VXI, PCI, CompactPCI, PC/AT and PC/104 platforms.

Condor's VME-AIC product line integrates multiple IP-429HD modules with flexible firmware on a powerful 68x040 or 68x060 platforms to provide the industry leading VME and VXI solution for ARINC 429, 575, 561, 573, 717 and other avionics protocols.

Specifications

ARINC 429 Receive Features

Up to 8 Receive Channels
Configuration options:

- 2, 4 or 8 standard Rx channels
- 4 parametric Rx channels
- 4 standard, 4 parametric Rx channels

Data rates: 12.5 KHz or 100 KHz
Standard input levels: ±6.5 to ±13 VDC (A to B)
Parametric threshold levels: ±0.1 to ±13.5 VDC (A to B)
Parity: Odd, even or none
Error reporting: Parity
Buffering: 2 KByte per channel

Receive Channel Buffering Modes

- Circular Buffer Mode
  - One buffer for all Labels per channel
  - 32 bit, time tag with each word

ARINC 429 Transmit Features

Up to 8 Transmit Channels
Configuration options

- 2, 4 or 8 standard Tx channels
- 4 parametric Tx channels
- 4 standard, 4 parametric Tx channels

Data Rates: 12.5 KHz or 100 KHz (software selectable)
Automatic slew rate adjustment
Standard output level: ±10 VDC (A to B)
Parametric output voltages: 0 to ±10 VDC (A to B)
Parity generated: Odd, even or none
Error injection option: Parity, gap, high or low bit count
Buffering: 2 KBytes per channel

Software

Source code example software (DOS) included with IP-429HD.

When IP-429HD modules are provided as components of Condor integrated modular solutions (CEI-300, CEI-500, CEI-600) for PC/AT, PCI, CompactPCI platforms, then we include high-level API(Application Programming Interface) for Windows NT, 98, 95 and DOS.

LabVIEW support and VxWorks support are optionally available.

Physical

Single-wide IP module (1.8" x 3.9")

Environmental

Standard operating temperature: 0°C to +70°C
Optional operating temperature: -40°C to +85°C
Relative humidity: 5 to 90% (non-condensing)

Hardware Configurations

IP-429HD-22	IP Module with 2 Rx and 2 Tx ARINC 429 channels

IP-429HD-42	IP Module with 4Rx and 2Rx ARINC 429 channels
IP-429HD-44	IP Module with 4 Rx and 4 Tx ARINC 429 channels
IP-429HD-44-P	IP Module with 4 Rx (Parametric) and 4 Tx (Parametric) ARINC 429 channels and error injection
IP-429HD-84	IP Module with 8 Rx and 4 Tx ARINC 429 channels
IP-429HD-88	IP Module with 8 Rx and 8 Tx ARINC 429 channels
IP-429HD-88-P	IP Module with 4 Rx (Parametric) and 4 Tx (Parametric) ARINC 429 channels and error injection and 4 Rx and 4 Tx ARINC 429 channels

Other IP Module configurations are available.
Contact the factory for integrated modular solutions for the IP-429HD on the following platforms:

Half and full size PC/AT	CEI-300
Full size PCI	CEI-500
6U intelligent VME	VME-AIC
C-size intelligent VXI	VXI-AIC
3U and 6U Compact PCI	CEI-600
PC/104	CEI-410
3U and 6U VME	VME-MIO



IP-429HD
216KB 2 PAGES





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