

Summary

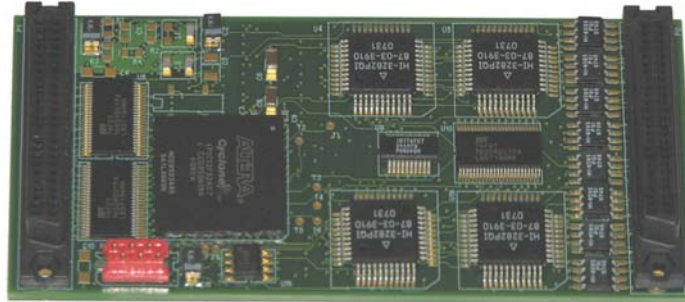
The **IP_ARINC429** is a high density IP module (Industry Pack-Compatible) interface for Avionics protocols that provides up to eight pairs of fully independent ARINC 429 channels.

The logic on the **IP_ARINC429** is designed to meet the ARINC 429 specifications for loading level detection, timing and protocol.

ARINC429 (Aeronautical Radio Incorporated) is a specification, which defines how avionics equipment and system should communicate with each other. ARINC 429 employs a unidirectional data bus standard known as Mark 33 Digital Information Transfer System (DITS). Messages are transmitted and received at a bit rate of either 12.5 kbits/second or 100 kbits/second



IP-ARINC 429 Serial Bus Interface- 16 Independent Receiver Channels And 8 Independent Transmitter Channels



IP-ARINC 429

Features:

- 16 Independent Receive and 8 Transmit channels
- Label matching for all receiver channels Eight x 16 Bits A/D channels
- One 64Kword SRAMs buffer for storing data
- Software selected data rate of 12.5 kbits/second or 100 kbits/second with automatic slew rate adjustment
- Programmable word length selection, with the parity bit generated automatically
- Automatic word gap timer
- Burst and Continuous Mode for transmitting data at the rate of 100 msec to 1200 msec
- Highly compact credit-card sized Industry-Pack module
 - 8/32 MHz IP clock.

Programmable via:

- IP Bus

IP interface:

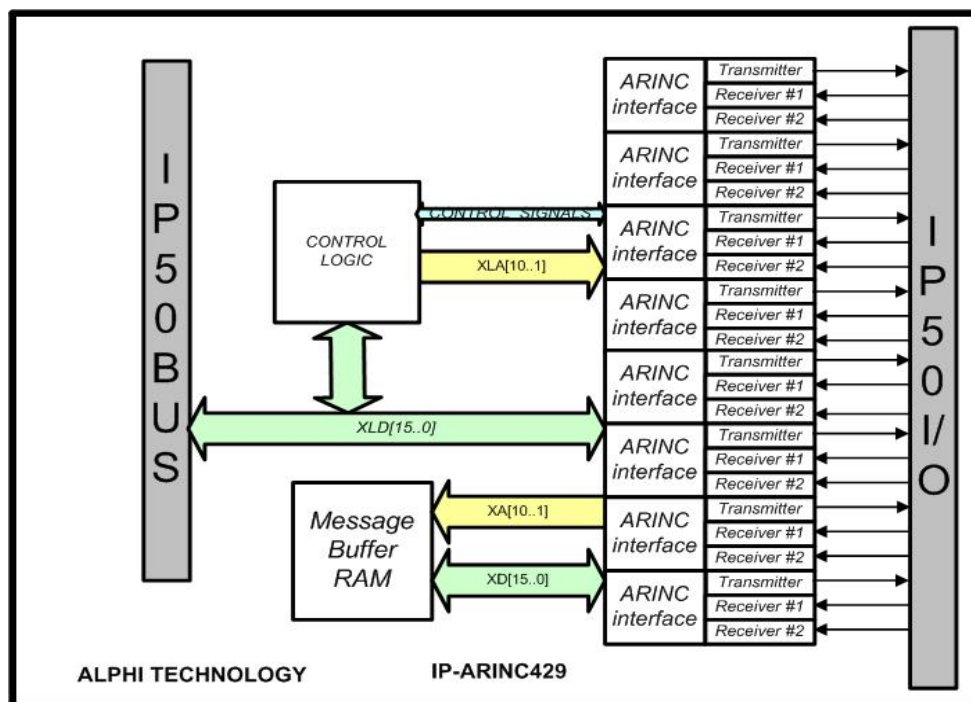
- 8/32 MHz clock
- 16 bit data
- Interrupts

Operating: Environmental:

- Operating temperature
Commercial: 0 to +55 °C
Optional: -25°C to +80°C
- Non-operating: -40°C to 85 °C
- Airflow requirement: .5 CFM
- Humidity: 5 to 90% (non-cond.)
- Altitude: 0 to 10'000 ft

Mechanical: Environmental:

- Size: Vita 4 Type 1 IP
1.8" x 3.9"
- Power: up to 3.5 watt
- Vibration: 0.5G RMS
20-2000 Hz rand
- Shock: 20 G, 11 ms, ½ sine
- Weight: tbd
- MTBF: >250000 hours



Functional Block Diagram

ORDERING INFORMATION

Part Number: IP-ARINC 429 16 Independents Channels

Optional Accessories

Part Number : TB-50-HDR 50 pin terminal block and 1meter flat ribbon cable
 CBL-50-HDR 50 pin, 1 meter flat ribbon cable, IDC header connector

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