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# Galileo

## Wired Condition Monitoring Via 10BASE-T1L

The Galileo condition monitoring platform showcases a new vibration monitoring solution from Analog Devices with 10BASE-T1L single pair Ethernet connectivity that enables seamless access to asset health insights, while also providing power to the smart sensors over two wires for both power and data up to 1 km. This low power, small form factor smart sensor solution can be deployed in harsh industrial environments including Zone 0 intrinsically safe applications.

## Key Advantages of the Platform

Data and power over two wires

Reliable data transmission up to 1 km

Wide bandwidth signal measurement down to DC

IP addressable sensor design

Seamless access to the data

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# Galileo Platform

The Galileo platform from Analog Devices enables wired condition monitoring of industrial assets over a 10BASE-T1L link. The platform features the ADXL359 MEMS vibration sensor and the ADIN1110 10BASE-T1L MAC-PHY and is housed in an enclosure mechanically optimized to pick up even the smallest vibrations.

ADXL359 provides a low power, low noise multi-axis vibration sensing capability that can measure signals down to DC and ADIN1110 10BASE-T1L MAC-PHY, which provides Ethernet connectivity and power over twisted pair cable. This in turn removes the need for the processor to have an integrated MAC, providing more flexibility on the choice of processor for edge while enabling an IP addressable sensor.

The Galileo platform enables IP addressable sensor edge nodes, which provide seamless access to high quality vibrational technology at lower overall system costs.
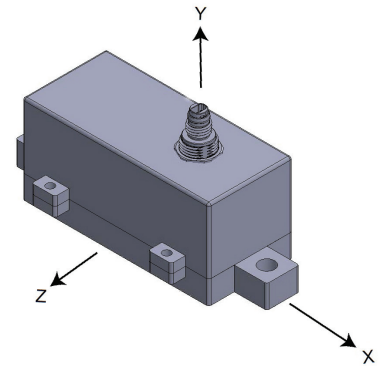


*The mechanical design of the Galileo platform.*

## Galileo Signal Chain
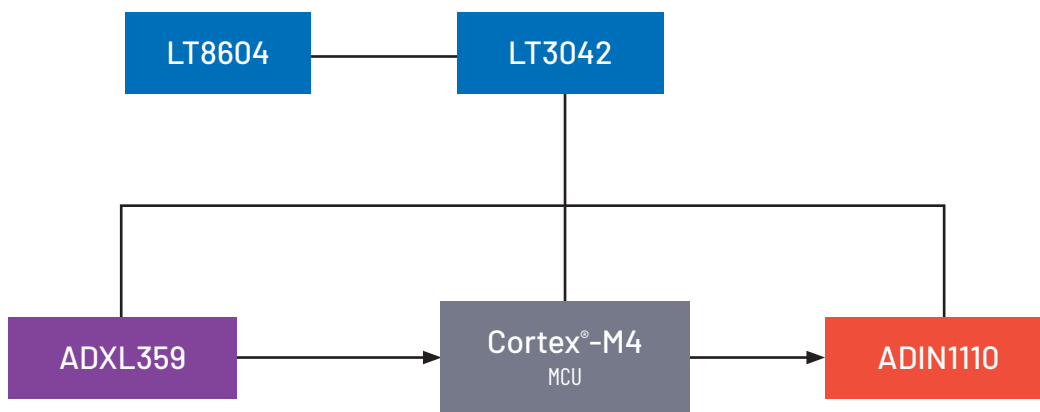


## Featured Products

| | |
|---|---|
| ADXL359 | Low noise, low drift, low power, 3-axis MEMS accelerometer |
| ADIN1110 | Robust, industrial, low power 10BASE-T1L Ethernet MAC-PHY |
| LT8604 | High efficiency 42 V/120 mA synchronous buck |
| LT3042 | 20 V, 200 mA, ultralow noise, ultrahigh PSRR linear regulator |

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