



Caribou Board

Flexible Industrial Communication and Control



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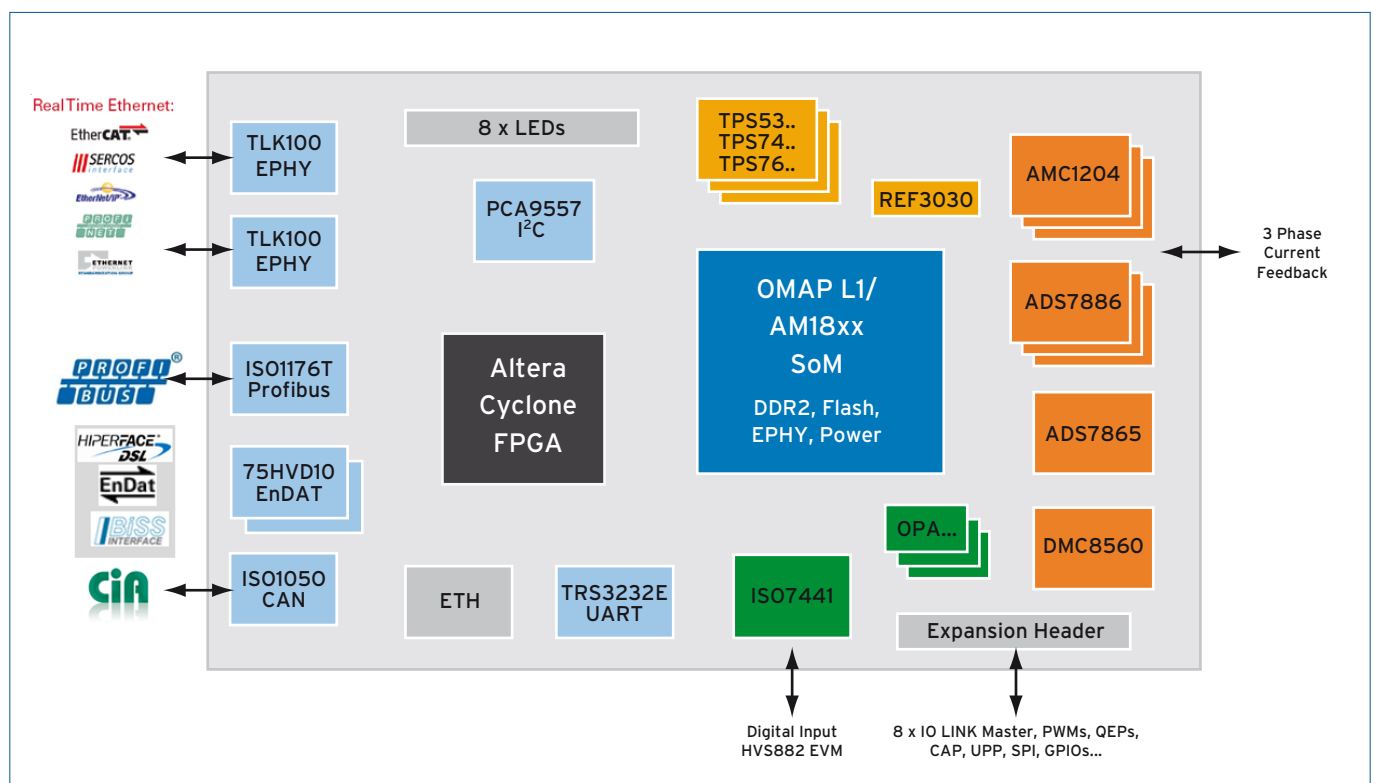
The Caribou board is a development and evaluation platform for industrial communication based on the OMAP L138 / AM1808 ARM microprocessor and analogue interfaces from Texas Instruments in combination with a Cyclone-3 FPGA from Altera and various analogue interfaces.

A range of different field buses and interfaces for industrial communications are available for developers, including serial-based field buses such as PROFIBUS and IO-Link as well as real-time Ethernet field buses such as EtherCAT, SERCOS-III, PROFINET, EtherNet/IP, Ethernet POWERLINK and IEEE1588. Encoder interfaces such as EnDat, BISS and HIPERFACE DSL can also be implemented. Featuring additional analogue components (ADC, DAC, PWMs), it provides interfaces for connection to control systems, resolvers and output stages.

The Caribou board provides developers with a special evaluation platform for industrial applications in the following areas:

- Programmable logic controllers (PLC)
- Control systems

- Sensors
- Motors with integrated controllers
- Industrial bus interfaces
 - Slave master gateways
 - Ethernet-based
 - EtherCAT
 - ProfiNet
 - EthernetIP
 - PowerLink
 - Sercos III
 - Serial-based
 - Profibus
 - ModBus
 - CAN
- Renewable energies
 - 3-phase solar inverters
 - Pitch controllers
- Test and measuring equipment



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