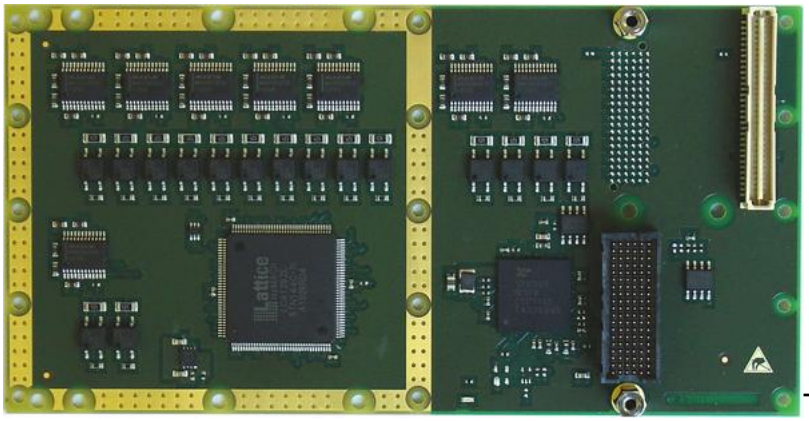
Module offers 8 individually programmed, high performance channels



TEWS TECHNOLOGIES announced the TXMC375, a Switched Mezzanine Card (XMC) compatible module offering 8 channels of high performance RS232/RS422/RS485 programmable asynchronous serial interfaces with P14 I/O. The conduction cooled XMC module is ideal for applications in transportation, COTS, communications, and process control.

The serial channels can be individually programmed to operate as RS232, RS422 or RS485 full duplex/half duplex interface. In addition programmable termination is provided for the RS422/RS485 interfaces. After power-up all serial I/O lines are in a high impedance state.

Each RS232 channel supports RxD, TxD, RTS, CTS and GND. RS422 and RS485 full duplex support a four wire interface (RX+, RX-, TX+, TX-) plus ground (GND). RS485 half duplex supports a two wire interface (DX+, DX-) plus ground (GND).

All serial channels use ESD protected transceivers. ESD protection is up to ±15KV.

In order to offload host CPU processing, each serial channel of the XMC module has separate 256 byte receive and transmit FIFOs that significantly reduce the processing overhead required for data to and from the transmitters and receivers. The FIFO trigger levels are programmable, and the baud rate is individually selectable up to 1 Mbps for RS232 channels and 10 Mbps for RS422 channels. The UART offers readable FIFO levels.

The TXMC375 operates in extended temperature range (-40°C to +85°C) and feature a five-year warranty.

Extensive software support for major operating systems such as Windows, Linux, LynxOS, VxWorks, Integrity and QNX is available.

TEWS TECHNOLOGIES

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