



NES-MPCIE-CAN

Mini PCIe CANbus 4 channel

▶ HIGHLIGHTS

PClexpress x1 Lane Interface

Four channel CAN controller

Supports standard CANbus and CAN FD

ISO11898-1:2015 , M_CAN Revision 3.2.1.1 ,
Meets requirements of ISO11898-2:2016

Data rates from 40Kbps to 8Mbps

Software programmable speed selection

Independent Software controlled

120Ω Termination

Internal or External Power Source

Programmable word length selection, with the parity bit generated automatically

CAN bus robustness
±42V bus fault protection
Failsafe mode
Internal dominant state timeout o Timeout watchdog

IRIG B Input,

±15KV ESD protection

Operating System : Windows ,Linux

RELATED PRODUCTS



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The NES-mPCIe-CAN is a Mini PCI express controller with an integrated CAN FD transceiver supporting data rates up to 8Mbps. The CAN FD controller meets the specifications of the ISO11898-1:2015 high speed Controller Area Network (CAN) data link layer and meets the physical layer requirements of the ISO11898-2:2016 high speed CAN specification. The NES-mPCIe-CAN provides an interface between the CAN bus and the system processor that supports both classical CAN and CAN FD.

The NES-mPCIe-CAN provides CAN FD transceiver functionality – differential transmit-receive capability from the bus. It also supports local wake up (LWU) and bus wake up (WUP). The NES-mPCIe-CAN device includes many protection features providing device and CAN bus robustness. Examples include failsafe mode, internal dominant state timeout, wide bus operating range and a timeout watchdog.

Environmental :

- Front panel I/O
- Vibration – 0.5G, 20-2000 Hz rand
- Shock – 20G, 11 msec, ½ sine
- MTBF – >250,000 hours

- Operating temperature Commercial: 0 to +70 °C Optional: -40 °C to +85 °C
- Non-operating: -50 °C to +90 °C
- Airflow requirement – 5 CFM
- Humidity – 5 to 90% (non-cond)
- Altitude – 0 to 10,000 feet

Order Part Number:

- NES-mPCIe-CAN MiniPCIe 4 channel CANbus