For industrial and embedded systems

Innodisk (Taiwan) has announced the EMUC-B201, an mPCIe CAN adapter for industrial and embedded systems. It gives embedded computers and IPCs access to sensors and subsystems in real time.

The module comes with two CAN interfaces (Photo: Innodisk)

INNODISK, A PROVIDER OF FLASH, MEMORY, AND PERIPHERALS for industrial and embedded systems, has introduced an embedded peripheral module that extends embedded systems and industrial PCs with CAN capability for the Internet of Things. The EMUC-B201 is a rugged mPCIe embedded peripheral module that provides dual CAN channel functionality to an embedded or industrial computer.

The EMUC-B201 can interface two CAN channels through either the mPCIe connector or a direct pin header connection for USB 2.0 communication with the main system. Invented originally for automotive subsystem communication and coordination, CAN is a real-time communication protocol connecting sensors, actuators, and electronic control units (ECUs) and is widely used in both vehicles and modern factory control and automation. CAN adapter enables embedded systems to tap directly into vehicle or factory sensors and subsystems for real time data access and control.

Dual interface flexibility

The product can connect to a host system through an mPCIe physical interface or through a direct USB 2.0 pin header connection located on the card. Besides fitting in a regular mPCIe slot, the adapter has three mounting holes and can be mounted directly onto an embedded motherboard and connected via the USB pin header, allowing it to be installed in systems without a free mPCIe slot.

The module is built to stand up to the harsh physical and electrical conditions of industrial and automotive environments. With its shock and vibration resistance, it stands up to the bumps of the road. The CAN connections are galvanically isolated up to 2500 V, shielding the card from harsh power surge conditions and feature termination resistors for clean signaling without reflection. With an operating temperature from -40 °C to 85 °C, the module can operate across a variety of temperature ranges.