

Nucleus CAN for Nucleus OSEK Controller Area Network

Description:

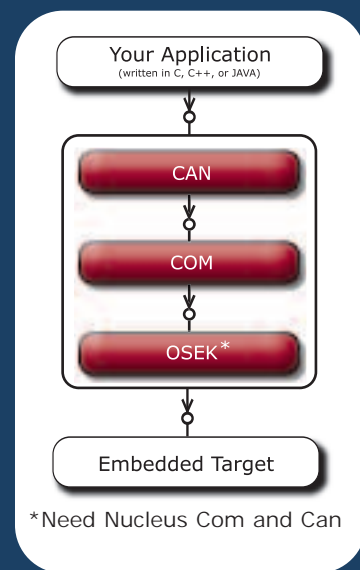
Today, automotive and industrial applications need to connect a combination of devices, including microprocessors, actuators and sensors. Traditionally, the connection of devices was done with proprietary and in-house solutions. While this approach may be suitable for very small and limited development, it suffers from incompatibility issues as well as problems upgrading the application. Nucleus CAN is Accelerated Technology's implementation of the ISO 11898 standard for Controller Area Network (CAN), and was created to provide a standard for connecting devices over a serial bus. Using the CAN protocol allows for a standard mechanism for communicating across devices, guaranteeing interoperability with other CAN devices and eliminating any time-consuming integration issues.

Originally designed for the automotive market, Nucleus CAN is being rapidly adopted for other applications requiring high reliability data transmission. Nucleus CAN is a serial bus system with multi-master capabilities, so all nodes are able to transmit data and several nodes can request the bus simultaneously. In a CAN network there is no addressing of subscribers or stations in the conventional sense, but instead, prioritized messages are transmitted. Because of the robustness and scalability of the standard, Nucleus CAN is becoming prominent in industrial automation, factory automation, machine control, as well as the automotive industry.

Nucleus CAN has numerous benefits including reduced costs and shorter time to market. The quality of the software in the control units of all companies is enhanced by adherence to the CAN standards, and any compatibility and integration issues with proprietary solutions are eliminated. Having multiple devices with different architectures in your application is no longer difficult to achieve, since the interface between the devices is standardized by the use of Nucleus CAN. Nucleus CAN is available in source code format and is sold with no royalties. You can use Nucleus CAN with all of the kernel technologies offered from Accelerated Technology, including Nucleus PLUS, Nucleus OSEK, and Nucleus μ PLUS.

Features:

- Designed for Automotive and Industrial Control applications
- Easily integrated into application
- Supports CAN 2.0A and CAN 2.0B message frame formats
- Compatible with Nucleus PLUS, Nucleus OSEK, and Nucleus μ PLUS
- Error detection and error signaling capabilities
- Automatic retransmission of corrupted messages
- Support broadcast messaging
- Source code, No royalties



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