

Nucleus COM

OSEK Communication

Description:

Nucleus COM is Accelerated Technology's implementation of the OSEK COM specification. Nucleus COM is the communication extension to Nucleus OSEK and provides for communication between networked nodes. Nucleus COM also provides additional mechanisms for communication within a single processor. Nucleus COM integrates seamlessly with Nucleus OSEK and operates independently of the physical connection layer. Re-use of software is a critical mechanism for reducing cost and increasing time to market; and a well-defined API and specification can accomplish this goal.

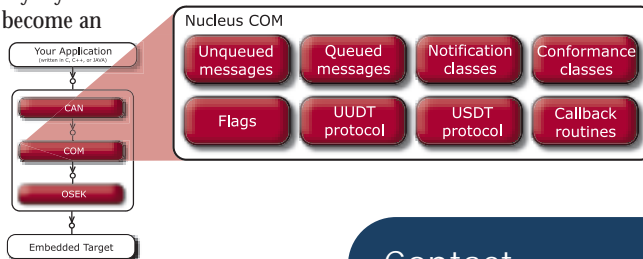
The OSEK COM specification was designed to provide standardization for communication in the automotive market. Nucleus COM was developed specifically for embedded applications in the automotive industry, providing a solid extension to the Nucleus OSEK product for processor communication. Strict requirements regulate OSEK development, defining the operating system as scalable, reliable, portable, and cost sensitive. Accelerated Technology's product line development already fits this criterion, and along with our existing source code, no royalty business model, it just made sense to become an early participant in OSEK technology.

Because of the varying demands of application development across projects, Nucleus COM supports multiple protocols and conformance classes to provide the broadest range of features for your application. The messaging protocols supported by Nucleus COM are UUDT and USDT, which stand for "unacknowledged unsegmented data transfer" protocol and "unacknowledged segmented data transfer" protocol, respectively. These two methods enable the application to use a message passing system which suits their application, depending on the size of the messages being sent.

Additionally, Nucleus COM supports the five communication conformance classes defined in the OSEK standard. The purpose of conformance classes is to guarantee portability across applications and processors. An application built to a certain conformance class is guaranteed to operate on a different system that supports the same conformance class level.

Features:

- Designed for use in Automotive applications
- Conforms to COM specification version 2.2.2
- Support for UUDT and USDT protocols
- Code automatically generated by OIL configurator
- Integrated with Nucleus OSEK, Nucleus NM, and Nucleus CAN
- Support for all conformance classes
- Source code, no royalties
- Written in ANSI C
- Easily ported to new architectures
- Clearly defined API



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