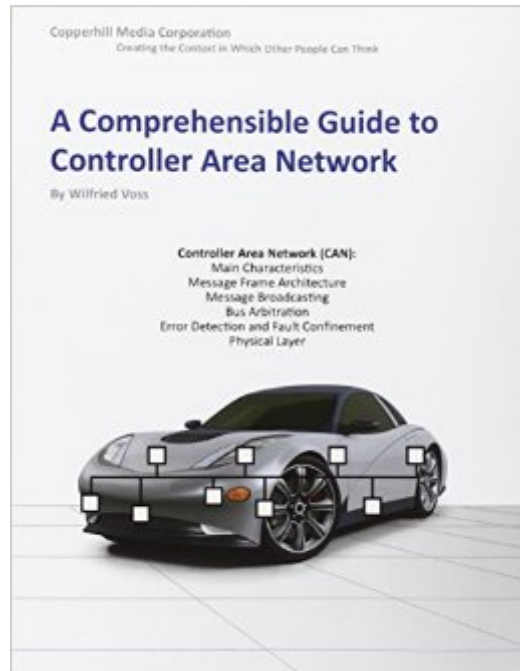


The book was found

A Comprehensible Guide To Controller Area Network



Synopsis

A Comprehensible Guide to Controller Area Network by Wilfried Voss represents the most thoroughly researched and most complete work on CAN available in the marketplace. Controller Area Network (CAN) is a serial network technology that was originally designed for the automotive industry, especially for European cars, but has also become a popular bus in industrial automation as well as other applications. The CAN bus is primarily used in embedded systems, and as its name implies, is a network technology that provides fast communication among microcontrollers up to real-time requirements, eliminating the need for the much more expensive and complex technology of a Dual-Ported RAM. This book provides complete information on all CAN features and aspects combined with a high level of readability.

Book Information

Paperback: 164 pages

Publisher: Copperhill Media Corporation; 2 edition (August 1, 2005)

Language: English

ISBN-10: 0976511606

ISBN-13: 978-0976511601

Product Dimensions: 7.4 x 0.4 x 9.7 inches

Shipping Weight: 11.2 ounces (View shipping rates and policies)

Average Customer Review: 4.1 out of 5 stars [See all reviews](#) (20 customer reviews)

Best Sellers Rank: #273,330 in Books (See Top 100 in Books) #91 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Microelectronics](#) #134 in [Books > Reference > Writing, Research & Publishing Guides > Writing > Technical](#) #10529 in [Books > Computers & Technology](#)

Customer Reviews

The book is so well structured and narrative that even a newbie to CAN may learn essentials in a few days. Tough themes like bit timing and synchronization are introduced clearly with smart illustrations. The author is not trying to blow out pages with unnecessary details but rather selects content very carefully and builds a self-consistent guide based on (his) evident conscious experience. The guide's index is rather lean but covers all the main features I found useful for myself when was coding fw/sw CAN suite. This small book gives intermediate-level description for low-level side of bus communication. For high-level CAN stuff see another rather good book, the "Embedded networking with CAN and CANopen" by O. Pfeiffer et al. With the knowledge you get

from the guide you most likely will not be able to create your own chip from the scratch ;-)... but definitely can develop your custom low-level s/w or f/w driver, as well as interpret waveforms on your scope with a greater confidence. Here is the table of contents of the guide:

1. Overview
2. Main characteristics
 - 2.1 Frames
 - 2.2 Multi-master bus access
 - 2.3 Message broadcasting
 - 2.4 Message priority
 - 2.5 Short messages
 - 2.6 Data rate and message frequency
 - 2.7 Bus arbitration
 - 2.8 Error detection and fault confinement
3. Benefits of using CAN
 - 3.1 CAN controller firmware
 - 3.2 Low cost implementation
 - 3.3 Speed, reliability, error-resistance
 - 3.4 Worldwide acceptance
 - 3.5 Higher layer protocols
4. Message frame architecture
 - 4.1 Dominant and recessive bus levels
 - 4.2 Data and remote frames
 - 4.3 Data frame
 - 4.4 Remote frame
 - 4.5 Message frame format
 - 4.6 Extended CAN protocol

[Download to continue reading...](#)

A Comprehensible Guide to Controller Area Network
Controller Area Network Prototyping with Arduino
Controller Area Network Prototyping With Arduino: Creating CAN Monitoring, Diagnostics, and Simulation Applications
How to Prepare for the Air Traffic Controller Exam (Barron's How to Prepare for the Air Traffic Controller)
Extending Simple Network Management Protocol (SNMP)
Beyond Network Management: A MIB Architecture for Network-Centric Services
Mountain Biking the San Francisco Bay Area: A Guide To The Bay Area's Greatest Off-Road Bicycle Rides (Regional Mountain Biking Series)
Wide-Area Data Network Performance Engineering
Designing the Total Area Network: Intranets, VPNs and Enterprise Networks Explained
Monitor Your Home Network: A How-To Guide to Monitoring a Small, Private Network
How To Set Up a Home Network With Windows 7: Your Step-By-Step Guide To Setting Up a Home Network With Windows 7
Wireless Network Administration A Beginner's Guide (Network Pro Library)
Controller-Based Wireless LAN Fundamentals: An end-to-end reference guide to design, deploy, manage, and secure 802.11 wireless networks
Home Network Handbook: Learn how to set up your home network
Network Security Assessment: Know Your Network
Network Programmability and Automation: Skills for the Next-Generation Network Engineer
Effective TCP/IP Programming: 44 Tips to Improve Your Network Programs: 44 Tips to Improve Your Network Programs
Descubra los secretos del network marketing: Redes de Mercadeo y Network marketing (Spanish Edition)
Microsoft System Center: Cloud Management with App Controller (Introducing)
Programmable Logic Controller (PLC) Tutorial, Siemens Simatic S7-200 Programmable Logic Controller (PLC) Tutorial

[Dmca](#)