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Automotive Ethernet - The Definitive Guide

By Colt Correa, Charles M. Kozierok, Robert B. Boatright, Jeffrey Quesnelle



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The Go-To Reference on the Exciting New Technology of Automotive Ethernet!

Ethernet, the most widely-used LAN technology in the world, is taking the automotive world by storm. As the electronic content in cars continues to grow, Ethernet promises to improve performance and enable powerful and useful applications. In its 1,161 pages, *Automotive Ethernet - The Definitive Guide* explains how Ethernet technology has been adapted via Broadcom's new BroadR-Reach® standard to bring Ethernet hardware and applications to vehicles.

Topics covered: Automotive electromagnetic, environmental and electrical requirements; network fundamentals and the OSI Reference Model; IEEE Project 802; Ethernet Physical Layer and Media Access Control, including BroadR-Reach, MAC addressing, frame formats and hardware; a comparison of Ethernet to automotive networks such as CAN, LIN, MOST, and FlexRay; and TCP/IP, including IPv4/IPv6, ICMP, ARP, NAT, TCP, UDP, and DoIP. Also covered is the Audio Video Bridging (AVB) suite used to transport media over Ethernet, including underlying standards: SRP (IEEE 802.1Qat), FQTSS (IEEE 802.1Qav), gPTP (IEEE 802.1AS), and AVTP (IEEE 1722). The book also describes diagnostics in an Ethernet environment, and tools for measurement, calibration and diagnostics (MCD).

Intended Audience:

- Electronics engineers, network communication engineers, testers, and technicians involved in automotive electronics development.
- Ethernet hardware engineers and network application designers who want to learn about Automotive Ethernet and how it differs from traditional Ethernet.
- Android, Linux, iOS, and Windows developers who want to exploit the growing demand for expertise in using these operating systems and other systems on Ethernet.
- Engineers and software developers in training at the university level.



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