



## ISO 17987 Road vehicles Local Interconnect Network(LIN).

### What is ISO 17987 Road vehicles Local Interconnect Network (LIN)?

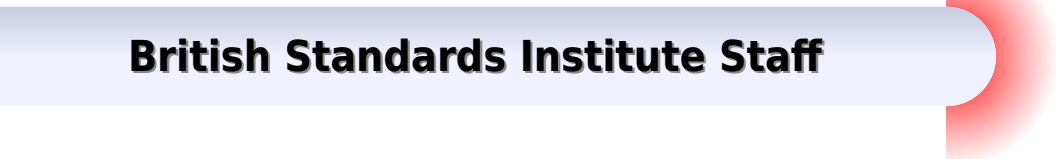
**LIN (Local Interconnect Network)** is a serial network protocol used for communication between components in vehicles. It is a single wire, serial network protocol that supports communications up to 19.2 Kbit/s at a bus length of 40 meters. The need for a cheap serial network arose as the technologies and the facilities implemented in the car grew, while the CAN bus was too expensive to implement for every component in the car. European car manufacturers started using different serial communication technologies, which led to compatibility problems.

In the late 1990s, the LIN Consortium was founded by five automakers (BMW, Volkswagen Group, Audi, Volvo Cars, Mercedes-Benz), with the technologies supplied (networking and hardware expertise) from Volcano Automotive Group and Motorola. The first fully implemented version of the new LIN specification (LIN version 1.3) was published in November 2002. In September 2003, version 2.0 was introduced to expand capabilities and make provisions for additional diagnostics features. LIN may be used also over the vehicle's battery power-line with a special LIN over DC power line (DC-LIN) transceiver. LIN over DC power line (DC-LIN) was standardized as ISO/AVL 17987-8.

CAN in Automation has been appointed by the ISO Technical Management Board (TMB) as the Registration Authority for the LIN Supplier ID standardized in the ISO 17987 series.

# Road Vehicles Local Interconnect Network Lin

**British Standards Institute Staff**



## **Road Vehicles Local Interconnect Network Lin:**

*Road Vehicles. Local Interconnect Network (LIN). Protocol Specification* British Standards Institute Staff,1916-08-31 Road transport Traffic control Road vehicles Mobile communication systems Telecommunication systems Radiocommunication Interfaces data processing Communication networks Data transmission Local area networks Computer networks Data transfer Information exchange *Road Vehicles. Local Interconnect Network (LIN). General Information and Use Case Definition* British Standards Institute Staff,1916-08-31 Road vehicles Information Vehicles Information exchange Computer networks Communication networks Error detection **Road Vehicles. Local Interconnect Network (LIN). Protocol Conformance Test Specification** British Standards Institute Staff,1916-10-31 Road transport Traffic control Road vehicles Mobile communication systems Telecommunication systems Radiocommunication Interfaces data processing Communication networks Data transmission Local area networks Computer networks Data transfer Information exchange *Diagnostic Communication with Road-Vehicles and Non-Road Mobile Machinery* Peter Subke,2019-03-01 Diagnostic Communication with Road Vehicles and Non Road Mobile Machinery examines the communication between a diagnostic tester and E E systems of road vehicles and non road mobile machinery such as agricultural machines and construction equipment The title also contains the description of E E systems control units and in vehicle networks the communication protocols e g OBD J1939 and UDS on CAN IP and a glimpse into the near future covering remote cloud based diagnostics and cybersecurity threats **Methodik zur Erkennung und Identifizierung eines Netzwerks am Beispiel der CAN-Technologie** Christoph Seifert,2024-12-13 Mit der von Christoph Seifert vorgeschlagenen Methode wird es ermöglicht dass ein weiterer Netzwerkteilnehmer einem CAN Netzwerk ohne Vorwissen bei der Netzwerkparametrierung hinzugefügt werden kann Ebenso erfolgt eine Identifikation des vorliegenden Netzwerks anhand von charakteristischen Eigenschaften die von einem antrainierten KI Algorithmus durchgeführt wird Somit kann eine Kommunikation zu einem unbekannten Netzwerk hergestellt und identifiziert werden **Bussysteme in der Fahrzeugtechnik** Werner Zimmermann,Ralf Schmidgall,2014-07-08 Dieses Fachbuch gibt einen Überblick über die in der Kfz Elektronik verbreiteten Bussysteme wie CAN FlexRay LIN oder MOST deren Protokolle und die Softwarearchitektur moderner Steuergeräte Die Beschreibung erfolgt aus der Sicht von Ingenieuren die diese Systeme in der Praxis einsetzen und in Fahrzeuge integrieren müssen Ausführlich wird auf die höheren Schichten der ISO SAE und ASAM Transport und Diagnoseprotokolle sowie deren Anwendung eingegangen Neben der Kommunikation wird die Softwarearchitektur der Steuergeräte mit Betriebssystem und Basissoftware vorgestellt wie sie im Rahmen von AUTOSAR OSEK VDX und HIS definiert werden Neu in dieser Auflage wurden CAN FD Automotive Ethernet OTX und WWH OBD aufgenommen *Road Vehicles. Local Interconnect Network (LIN). Transport Protocol and Network Layer Services* British Standards Institute Staff,1916-08-31 Road vehicles Information Vehicles Information exchange Computer networks Communication networks Error detection Transportation Network layer OSI Data transmission

*Road Vehicles. Local Interconnect Network (LIN). Electrical Physical Layer (EPL) Specification 12 V/24 V* British Standards Institute Staff, 1916-09-30 Road transport Traffic control Road vehicles Mobile communication systems Telecommunication systems Radiocommunication Interfaces data processing Communication networks Data transmission Local area networks Computer networks Data transfer Information exchange Road Vehicles. Local Interconnect Network (LIN). Application Programmers Interface (API) British Standards Institute Staff, 1916-11-30 Road vehicles Vehicles Computer networks Interfaces data processing Application program interface Handbuch Digitalisierung Hans Corsten, Stefan Roth, 2022-01-13 Ein vielfältiger und differenzierter Einblick in das komplexe Phänomen der Digitalisierung Das Phänomen der Digitalisierung wird in Wissenschaft und Praxis intensiv diskutiert Vor diesem Hintergrund ist dieser Sammelband entstanden um einerseits die Diskussion zu versachlichen und spektakuläre Einschätzungen die oft eher den Charakter von Prophezeiungen haben zu relativieren Andererseits soll dem Querschnittscharakter der Digitalisierung Rechnung getragen werden Vor diesem Hintergrund umfasst das Handbuch Beiträge aus der Informatik der Jurisprudenz der Volkswirtschaftslehre der Betriebswirtschaftslehre und den Gesellschaftswissenschaften Das Werk ist in fünf Kapitel gegliedert die jeweils eine Perspektive im Fokus haben A Generelle Perspektive B Technologische Perspektive C Funktionale Perspektive D Institutionelle Perspektive E Gesellschaftliche Perspektive Dieses Handbuch richtet sich an Leser die sich mit Problemen und Herausforderungen der Digitalisierung beschäftigen und nach vertiefenden Einblicken in dieses Themenfeld suchen die einerseits theoretisch fundiert und andererseits praktisch relevant sind Das Werk spricht deshalb Wissenschaftler und Praktiker gleichermaßen an Die Herausgeber Prof Dr Stefan Roth Lehrstuhl für Marketing an der Technischen Universität Kaiserslautern Prof Dr Hans Corsten Lehrstuhl für Produktionswirtschaft an der Technischen Universität Kaiserslautern

**Road Vehicles. Local Interconnect Network (LIN). Electrical Physical Layer (EPL) Conformance Test Specification** British Standards Institute Staff, 1916-12-31 Road transport Traffic control Road vehicles Mobile communication systems Telecommunication systems Radiocommunication Interfaces data processing Communication networks Data transmission Local area networks Computer networks Data transfer Information exchange

Kommunikationssysteme im Automobil Mathias Rausch, 2022-10-10 Für den Automobilbereich wurde eine Reihe von drahtgebundenen Kommunikationssystemen entwickelt die auch in anderen Bereichen z B in der Automatisierungstechnik große Verbreitung gefunden haben Dieses Buch widmet sich den grundlegenden Funktionsweisen dieser Kfz Kommunikationssysteme und stellt folgende Systeme ausführlich dar LIN CAN FlexRay Automotive Ethernet In Teil I des Buches werden das LIN Protokoll und die Prinzipien von CAN und FlexRay behandelt In Teil II werden die Grundlagen komplizierterer Mechanismen und die neuesten Erweiterungen von CAN CAN FD und CAN XL dargestellt Bei FlexRay wird auf spezielle Mechanismen eingegangen die unter anderem für einen zuverlässigen Betrieb von Bedeutung sind Außerdem wird die Funktionsweise von Automotive Ethernet beschrieben Der zweiteilige Aufbau des Buches unterstützt dabei schnell

einen Überblick zu gewinnen und sich nicht in technischen Details zu verlieren. LeserInnen, die tiefer in die Technik einsteigen möchten, kommen in Teil II auf ihre Kosten.

**Basiswissen Automotive Softwaretest** Ralf Bongard, Klaudia Dussa-Zieger, Ralf Reißing, Alexander Schulz, 2020-09-04. Kompaktes Grundlagenwerk für den Certified Automotive Software Tester: gezielte Übertragung der bewährten Testmethodik aus dem ISTQB Certified Tester Standard in die Automotive Branche mit vielen zusätzlichen Informationen und Beispielen aus der Praxis. Die Autoren beschreiben die Besonderheiten der Tests im automobilen Umfeld für den Certified Automotive Software Tester. Es wird ausführlich erläutert, wie bekannte Testverfahren an die spezifischen Projektbedingungen angepasst und wie bei der Auswahl von angemessenen Testverfahren die grundlegenden Anforderungen der relevanten Normen und Standards Automotive SPICE, ISO 26262 etc. berücksichtigt werden. Auch auf das Testen in virtuellen Testumgebungen wird eingegangen. Das Buch eignet sich mit vielen erläuterten Beispielen gleichermaßen für das Selbststudium zur Vorbereitung auf die Zertifizierung wie als kompaktes Basiswerk zum Thema in der Praxis und an Hochschulen.

*Automotive Software Engineering* Jörg Schäuffele, Thomas Zurawka, 2010-04-03. Seit Anfang der 1970er Jahre ist die Entwicklung von Kraftfahrzeugen geprägt von einem rasanten Anstieg des Einsatzes von Elektronik und Software. Dieser Trend hält bis heute an und wird getrieben von steigenden Kunden- und Umwelanforderungen. Nahezu alle Funktionen des Fahrzeugs werden inzwischen elektronisch gesteuert, geregelt oder überwacht. Die Realisierung von Funktionen durch Software bietet einzigartige Freiheitsgrade beim Entwurf. In der Fahrzeugentwicklung müssen jedoch Randbedingungen wie hohe Zuverlässigkeit und Sicherheitsanforderungen, lange Produktlebenszyklen, begrenzte Kostenrahmen, kurze Entwicklungszeiten und zunehmende Variantenvielfalt berücksichtigt werden. In diesem Spannungsfeld steht Automotive Software Engineering. Dieses Fachbuch enthält die Grundlagen sowie zahlreiche Anregungen und praktische Beispiele zu Prozessen, Methoden und Werkzeugen, die zur sicheren Beherrschbarkeit von elektronischen Systemen und Software im Fahrzeug beitragen. Die 4. Auflage wurde hinsichtlich des AUTOSAR Standards bearbeitet und aktualisiert.

International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018 Jude Hemanth, Xavier Fernando, Pavel Lafata, Zubair Baig, 2018-12-20. This book discusses data communication and computer networking communication technologies and the applications of IoT. Internet of Things, big data, cloud computing and healthcare informatics. It explores, examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT. Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in IoT, it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area, highlighting various innovative ideas for future research.

**Data Acquisition from Light-Duty Vehicles Using OBD and CAN** Eric Walter, Richard Walter, 2018-11-15. Modern vehicles have multiple electronic control units (ECU) to control various subsystems such as the engine, brakes, steering, air conditioning and infotainment. These ECUs are networked together to share information directly.

with each other This in vehicle network provides a data opportunity for improved maintenance fleet management warranty and legal issues reliability and accident reconstruction Data Acquisition from LD Vehicles Using OBD and CAN is a guide for the reader on how to acquire and correctly interpret data from the in vehicle network of light duty LD vehicles The reader will learn how to determine what data is available on the vehicle s network acquire messages and convert them to scaled engineering parameters apply more than 25 applicable standards and understand 15 important test modes Topics featured in this book include Calculated fuel economy Duty cycle analysis Capturing intermittent faults Written by two specialists in this field Richard P Walter and Eric P Walter of HEM Data the book provides a unique roadmap for the data acquisition user The authors give a clear and concise description of the CAN protocol plus a review of all 19 parts of the SAE International J1939 standard family Data Acquisition from LD Vehicles Using OBD and CAN is a must have reference for product engineers service technicians fleet managers and all interested in acquiring data effectively from the SAE J1939 equipped vehicles

**Automotive Threat Analysis and Risk Assessment in Practice** Rodrigo do Carmo,Alexander Schlensog,2024-11-08 The surge in automotive cybersecurity regulations necessitates a structured risk management method This work examines these regulations details the European cybersecurity legal framework and explores the ISO SAE 21434 s threat analysis and risk assessment TARA approach Implementing TARA in real world scenarios presents challenges such as identifying the correct assets or performing accurate threat modeling This book employs a pragmatic approach to TARA across three domains electrical and electronic systems within the vehicle the vehicle s connected ecosystem and manufacturing plants integrating insights from ISO IEC 27000 and IEC 62443 standard series without seeking to harmonize them This book offers a technical guideline for TARA presenting detailed case studies across these domains and emphasizing technical rigor while ensuring efficiency

*Computational Intelligence for Wireless Sensor Networks* Sandip Kumar Chaurasiya,Joydeep Dutta,Arindam Biswas,Gorachand Dutta,Mrinal Kanti Sarkar,2022-07-25 Computational Intelligence for Wireless Sensor Networks Principles and Applications provides an integrative overview of the computational intelligence CI in wireless sensor networks and enabled technologies It aims to demonstrate how the paradigm of computational intelligence can benefit Wireless Sensor Networks WSNs and sensor enabled technologies to overcome their existing issues This book provides extensive coverage of the multiple design challenges of WSNs and associated technologies such as clustering routing media access security mobility and design of energy efficient network operations It also describes various CI strategies such as fuzzy computing evolutionary computing reinforcement learning artificial intelligence swarm intelligence teaching learning based optimization etc It also discusses applying the techniques mentioned above in wireless sensor networks and sensor enabled technologies to improve their design The book offers comprehensive coverage of related topics including Emergence of intelligence in wireless sensor networks Taxonomy of computational intelligence Detailed discussion of various metaheuristic techniques Development of intelligent MAC protocols Development of intelligent routing protocols Security

management in WSNs This book mainly addresses the challenges pertaining to the development of intelligent network systems via computational intelligence It provides insights into how intelligence has been pursued and can be further integrated in the development of sensor enabled applications

**Embedded Systems Handbook** Richard Zurawski, 2017-12-19 Considered a standard industry resource the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of diverse applications including those in automotive electronics industrial automated systems and building automation and control Now a new resource is required to report on current developments and provide a technical reference for those looking to move the field forward yet again Divided into two volumes to accommodate this growth the Embedded Systems Handbook Second Edition presents a comprehensive view on this area of computer engineering with a currently appropriate emphasis on developments in networking and applications Those experts directly involved in the creation and evolution of the ideas and technologies presented offer tutorials research surveys and technology overviews that explore cutting edge developments and deployments and identify potential trends This second self contained volume of the handbook Network Embedded Systems focuses on select application areas It covers automotive field industrial automation building automation and wireless sensor networks This volume highlights implementations in fast evolving areas which have not received proper coverage in other publications Reflecting the unique functional requirements of different application areas the contributors discuss inter node communication aspects in the context of specific applications of networked embedded systems Those looking for guidance on preliminary design of embedded systems should consult the first volume Embedded Systems Design and Verification

**Security in Autonomous Driving** Obaid Ur-Rehman, Natasa Zivic, 2020-10-12 Autonomous driving is an emerging field Vehicles are equipped with different systems such as radar lidar GPS etc that enable the vehicle to make decisions and navigate without user s input but there are still concerns regarding safety and security This book analyses the security needs and solutions which are beneficial to autonomous driving

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## **Table of Contents Road Vehicles Local Interconnect Network Lin**

1. Understanding the eBook Road Vehicles Local Interconnect Network Lin
  - The Rise of Digital Reading Road Vehicles Local Interconnect Network Lin
  - Advantages of eBooks Over Traditional Books
2. Identifying Road Vehicles Local Interconnect Network Lin
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Road Vehicles Local Interconnect Network Lin
  - User-Friendly Interface



4. Exploring eBook Recommendations from Road Vehicles Local Interconnect Network Lin
  - Personalized Recommendations
  - Road Vehicles Local Interconnect Network Lin User Reviews and Ratings
  - Road Vehicles Local Interconnect Network Lin and Bestseller Lists
5. Accessing Road Vehicles Local Interconnect Network Lin Free and Paid eBooks
  - Road Vehicles Local Interconnect Network Lin Public Domain eBooks
  - Road Vehicles Local Interconnect Network Lin eBook Subscription Services
  - Road Vehicles Local Interconnect Network Lin Budget-Friendly Options
6. Navigating Road Vehicles Local Interconnect Network Lin eBook Formats
  - ePub, PDF, MOBI, and More
  - Road Vehicles Local Interconnect Network Lin Compatibility with Devices
  - Road Vehicles Local Interconnect Network Lin Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Road Vehicles Local Interconnect Network Lin
  - Highlighting and Note-Taking Road Vehicles Local Interconnect Network Lin
  - Interactive Elements Road Vehicles Local Interconnect Network Lin
8. Staying Engaged with Road Vehicles Local Interconnect Network Lin
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Road Vehicles Local Interconnect Network Lin
9. Balancing eBooks and Physical Books Road Vehicles Local Interconnect Network Lin
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Road Vehicles Local Interconnect Network Lin
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Road Vehicles Local Interconnect Network Lin
  - Setting Reading Goals Road Vehicles Local Interconnect Network Lin
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Road Vehicles Local Interconnect Network Lin
  - Fact-Checking eBook Content of Road Vehicles Local Interconnect Network Lin
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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