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**Road vehicles — Low-speed serial data  
communication —**

**Part 2:**

Low-speed controller area network (CAN)

*Véhicules routiers — Communication en série de données à basse  
vitesse —*

*Partie 2: Réseau local à commande à basse vitesse (CAN)*



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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11519-2 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Sub-Committee SC 3, *Electrical and electronic equipment*.

ISO 11519 consists of the following parts, under the general title *Road vehicles — Low-speed serial data communication*:

- *Part 1: General and definitions*
- *Part 2: Low-speed controller area network (CAN)*
- *Part 3: Vehicle area network (VAN)*
- *Part 4: Class B data communication network interface (J1850)*

# Road vehicles — Low-speed serial data communication —

## Part 2:

## Low-speed controller area network (CAN)

### 1 Scope

This part of ISO 11519 specifies the data link layer and the physical layer of the low-speed Controller Area Network (CAN), a communications network up to 125 kbit/s, for road vehicle application. The low-speed CAN is a serial communication protocol supporting distributed real-time control and multiplexing.

This specification describes the general architecture of CAN in terms of the hierarchical layers defined in the ISO-OSI model according to ISO 7498.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 11519. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 11519 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7498:1984, *Information processing systems — Open Systems Interconnection — Basic Reference Model.*

ISO 8802-2:1989, *Information processing systems — Local area networks — Part 2: Logical link control.*

ISO/IEC 8802-3:1993, *Information technology — Local and metropolitan area networks — Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications.*

ISO 11519-1:1994, *Road vehicles — Low-speed serial data communication — Part 1: General and definitions.*