



ISO 11898-2

Road vehicles — Controller area network (CAN) —

Part 2:
High-speed physical medium attachment (PMA) sublayer

Véhicules routiers — Gestionnaire de réseau de communication (CAN) —

Partie 2: Sous-couche de l'unité d'accès au support à haute vitesse (PMA)

**Third edition
2024-03**

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Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	3
5 HS-PMA function	4
5.1 Base requirements.....	4
5.2 HS-PMA test circuit.....	5
5.3 Static parameter.....	5
5.3.1 Maximum ratings of V_{CAN_H} , V_{CAN_L} and V_{Diff}	5
5.3.2 Recessive output characteristics, bus biasing active.....	6
5.3.3 Recessive output characteristics, bus biasing inactive.....	6
5.3.4 Dominant output characteristics.....	7
5.3.5 Maximum driver output current.....	8
5.3.6 PMA static receiver input characteristics, bus biasing active and inactive.....	9
5.3.7 Receiver input resistance.....	9
5.3.8 Maximum leakage currents of CAN_H and CAN_L.....	10
5.4 Dynamic parameter.....	11
5.4.1 Driver symmetry.....	11
5.4.2 Optional transmit dominant timeout.....	11
5.4.3 Transmitter and receiver timing behaviour.....	11
5.5 Wake-up from low-power mode.....	15
5.5.1 Wake-up procedures.....	15
5.5.2 General requirement.....	15
5.5.3 Basic wake-up.....	15
5.5.4 Via wake-up pattern.....	15
5.5.5 Selective wake-up.....	18
5.5.6 Bus biasing procedure.....	23
6 Conformance	25
Annex A (normative) HS-PMA with SIC mode and FAST mode	26
Annex B (informative) ECU and network design	55
Annex C (informative) PN physical layer modes	63
Bibliography	64

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 31, *Data communication*.

This third edition cancels and replaces the second edition (ISO 11898-2:2016), which has been technically revised.

The main changes are as follows:

- [Clause 5](#) is restructured, the parameters are categorized by static parameter and dynamic parameter;
- Table 13 with bit rates above 1 Mbit/s and up to 2 Mbit/s is in this edition [Table 15](#) (parameter set A). Table 14 with bit rates above 2 Mbit/s and up to 5 Mbit/s is now [Table 16](#) (parameter set B). The parameter set C (see [Table 17](#) and [Table 18](#)) in this edition is newly introduced;
- [Annex A](#) in this edition is newly introduced; it specifies HS-PMAs with the SIC mode and the FAST mode. [Annex B](#) and [Annex C](#) in this edition are Annex A and Annex B in the previous edition. The content is unchanged.

A list of all parts in the ISO 11898 series can be found on the ISO website.

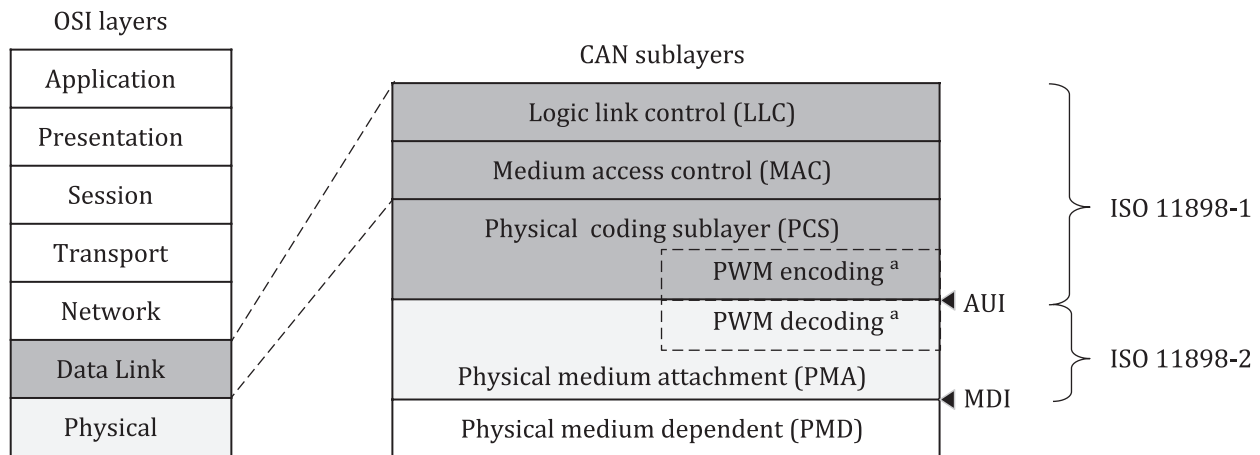
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The ISO 11898 series provides requirement specifications for the CAN data link layer and physical layer. It is intended for chip implementers, e.g. ISO 11898-1 for CAN protocol controllers and this document for CAN transceivers. Related conformance test plans are given in the ISO 16845 series. The CAN data link layer models the open system interconnect (OSI) data link layer; it is internally subdivided into logic link control (LLC) and medium access control (MAC). ISO 11898-1 also specifies the CAN physical coding sublayer (PCS) by means of the attachment unit interface (AUI). Optionally, the PCS also provides the PWM encoding to be linked to a CAN SIC XL transceiver, which provides the PWM decoding.

The open system interconnect (OSI) layers above the data link layer (e.g. the network layer) are not specified in the ISO 11898 series.

Figure 1 shows the relation between the OSI layers and the CAN sublayers.



Key

- AUI attachment unit interface
- MDI medium dependent interface
- ^a Only supported by CAN XL.

Figure 1 — CAN data link and physical sublayers relation to the OSI model