

ISO 15765-5:2021-09 (E)

Road vehicles - Diagnostic communication over Controller Area Network (DoCAN) - Part 5: Specification for an in -vehicle network connected to the diagnostic link connector

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	1
4.1	Symbols	1
4.2	Abbreviated terms	2
5	Conventions	3
6	In-vehicle network to external test equipment connection	3
6.1	Connectivity scenarios between external test equipment and vehicle	3
6.2	Technical requirements overview	3
6.3	SI -- Data.req, Data.ind and Data.conf service interface	4
6.4	SI -- Parameter mapping and configuration of OSI-layers	5
6.5	Transport layer (TL)	5
6.5.1	TL - Data interface primitive parameter mapping	5
6.5.2	TL - Message segmentation	6
6.5.3	TL ISO 15765-2 packet flow control	6
6.6	Network layer (NL)	6
6.6.1	NL - Data interface primitive parameter mapping	6
6.6.2	NL - ISO 15765-2 network layer services	7
6.6.3	NL - ISO 15765-2 network layer timing parameters	7
6.6.4	NL - ISO 15765-2 uniqueness of node diagnostic address	7
6.6.5	NL - ISO 15765-2 supported addressing formats	7
6.7	Data link layer (DLL)	8
6.7.1	DLL - Data interface primitive parameter mapping	8
6.7.2	DLL - Service interface parameter requirements	9
6.7.3	DLL - Device acceptance of CAN identifier	10
6.8	Physical layer (PHY)	10
6.8.1	PHY - Physical signalling (PS) requirements	10
6.8.2	PHY - Physical medium attachment (PMA) requirements	14
6.8.3	PHY - Physical media dependent (PMD) sub-layer requirements	14
Annex A (informative)	Compatibility between test equipment and in-vehicle network connected to diagnostic link connector	16
Bibliography		17