

ISO/IEC 10373-8:2011-03 (E)

Identification cards - Test methods - Part 8: USB-ICC

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	3
5	Testing USB Physical and Electrical Characteristics	3
5.1	Introduction	3
6	Test Set-Up	4
6.1	Basic Configuration	4
6.2	USB Protocol Analyzer features	5
6.3	Devices under Test	5
7	Test Classification and Validation Criteria	6
7.1	Test Classification	6
7.2	Test types	6
7.3	Test Targets	7
7.4	Test criticality	7
7.5	Test Acceptance and refusal criteria	7
8	USB Protocol Compliance Test Procedure	8
8.1	USB Protocol Tests Groups	8
8.2	Test Description Framework	8
8.2.1	USB signals management Testing	9
8.2.2	Timing management Test	14
8.2.3	Low level protocol and error recovery Testing	15
8.2.4	Cancel and Abandon Tests	19
8.2.5	USB State Machine	20
8.3	Standard Request management Tests	20
8.3.1	Objectives	20
8.3.2	Requirements	20
8.3.3	Initial condition	20
8.3.4	Nominal cases	20
8.3.5	Test List	21
8.3.6	Error cases	22
8.3.7	Common Test Conditions	22
8.3.8	Test List	23
9	Tests for compliance with CCID Class	24
9.1	Objectives	24
9.2	Control A Transfer Individual Request Test	24
9.2.1	Test Description	24
9.2.2	Objectives	24
9.2.3	Requirements	24
9.2.4	Initial USB-ICC condition:	25

9.2.5	Testing Set-Up	25
9.2.6	Test List: Individual Requests in Nominal and with Error Cases	25
9.3	Control A Transfer State Diagram Test	27
9.3.1	Objectives	27
9.3.2	Requirements	27
9.3.3	Initial condition	27
9.3.4	Type of Test	27
9.3.5	Test Description	27
9.3.6	Control transfer version A: Test list	28
Bibliography		33