

ISO/IEC 24723:2010-08 (E)

Information technology - Automatic identification and data capture techniques - GS1 Composite bar code symbology specification

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms, definitions, abbreviated terms and mathematical operators	2
3.1	Terms and definitions	2
3.2	Abbreviated terms	3
3.3	Mathematical operators and notational conventions	3
4	Symbol description	3
4.1	Basic characteristics	3
4.2	Summary of additional features	4
4.3	Symbol structure	4
4.4	Supported component combinations	6
5	Source data encodation into a binary string	6
5.1	General	6
5.2	Encodation Method field	7
5.3	Compressed data field	7
5.4	General-purpose data compaction field	11
6	Error correction	15
7	Linear component requirements	15
7.1	General	15
7.2	EAN/UPC linear components	15
7.3	GS1 DataBar family linear components	16
7.4	GS1-128 components	18
8	CC-A component requirements	19
8.1	CC-A -- General	19
8.2	Overview of the CC-A component	19
8.3	CC-A component structure	20
8.4	Symbol character structure	22
8.5	Base 928 compaction mode	24
8.6	Reference decode algorithm	25
9	CC-B component requirements	26
10	CC-C component requirements	27
11	Symbol dimensions	28
11.1	Minimum width of a module (X)	28
11.2	Linear component height	28
11.3	2D component row height (Y)	28
11.4	Separator pattern and vertical separator bars	28
11.5	Quiet zones	29

12	Graphical requirements	29
12.1	General	29
12.2	Vertical alignment requirements	29
12.3	Horizontal alignment requirements	29
12.4	Human readable interpretation	30
13	Symbol quality	30
13.1	Linear component	30
13.2	2D component	30
13.3	Overall composite symbol grade	30
13.4	Additional pass/fail criteria	30
14	Transmitted data	30
14.1	General data transmission techniques	30
14.2	GS1-128 Composite symbols	31
14.3	GS1 DataBar Composite symbols	31
14.4	EAN/UPC Composite symbols	31
14.5	Symbol separator character	32
14.6	2D component escape mechanism character	32
14.7	Linear-only transmission mode	32
14.8	GS1-128 emulation	32
14.9	Examples of transmitted data	33
15	Application-defined parameters	33
Annex A (normative) Symbology identifiers		34
Annex B (normative) Parsing AI element strings		36
Annex C (normative) 2D component escape mechanism		38
Annex D (informative) Printing considerations		39
Annex E (informative) Base 928 radix conversions		42
Bibliography		45