

ISO/IEC 24724:2006-11 (E)

Information technology - Automatic identification and data capture techniques - Reduced Space Symbology (RSS) 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	Types of RSS symbol	3
4.2	Symbology characteristics	3
4.3	Summary of additional features	4
4.4	Symbol structure	4
5	Symbol requirements for RSS-14	5
5.1	Basic characteristics	5
5.2	Symbol structure	5
5.2.1	Data character structure	6
5.2.2	Data character value	6
5.2.3	Symbol value	8
5.2.4	Finder patterns	9
5.2.5	Reference decode algorithm	10
5.3	Special RSS-14 formats for specific applications	12
5.3.1	RSS-14 Truncated format	12
5.3.2	RSS-14 two-row formats	13
6	Symbol requirements for RSS Limited	14
6.1	Basic characteristics	14
6.2	Symbol structure	15
6.2.1	Data character structure	15
6.2.2	Data character value	15
6.2.3	Symbol value	16
6.2.4	Check character	17
6.2.5	Finder pattern	17
6.2.6	Reference decode algorithm	18
7	Symbol requirements for RSS Expanded	19
7.1	Basic characteristics	19
7.2	Symbol structure	19
7.2.1	Overall symbol structure	19
7.2.2	Symbol character structure	20
7.2.3	Symbol character value	21
7.2.4	Symbol binary value	22
7.2.5	Data encodation	22
7.2.6	Check character	31
7.2.7	Finder pattern	32

7.2.8	RSS Expanded Stacked	34
7.2.9	Reference decode algorithm	35
8	Symbol quality	37
8.1	Linear symbology parameters	37
8.2	Additional pass/fail criteria	37
8.3	Stacked symbols	37
9	Transmitted data	37
10	Human readable interpretation	38
11	Minimum width of a module (X)	38
12	Application-defined parameters	38
Annex A (normative) Check digit calculation		39
Annex B (normative) C-language element width encoder and decoder		40
Annex C (normative) RSS Limited check character element widths		44
Annex D (normative) Splitting long RSS Expanded symbols for UCC/EAN emulation mode		47
Annex E (informative) Symbol elements		48
Annex F (informative) Encoding examples		52
Annex G (informative) C-language element width decoder		57
Annex H (informative) Considerations to minimize misreads		60
Annex I (informative) Printing considerations		61
Annex J (informative) Reduced Space Symbology -- Summary of Characteristics		64
Bibliography		65