INTERNATIONAL STANDARD

ISO/IEC 24723

Second edition
2010-08-01

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

Technologies de l'information — Techniques automatiques d'identification et de capture des données — Spécifications de la symbologie des codes à barres du Composant GS1

Reference number
ISO/IEC 24723:2010(E)

© ISO/IEC 2010

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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

© ISO/IEC 2010 – All rights reserved