GS1 DIY Self-Learning Materials

How to assign GS1 barcode numbers

GS1 Malaysia Berhad 7th Edition



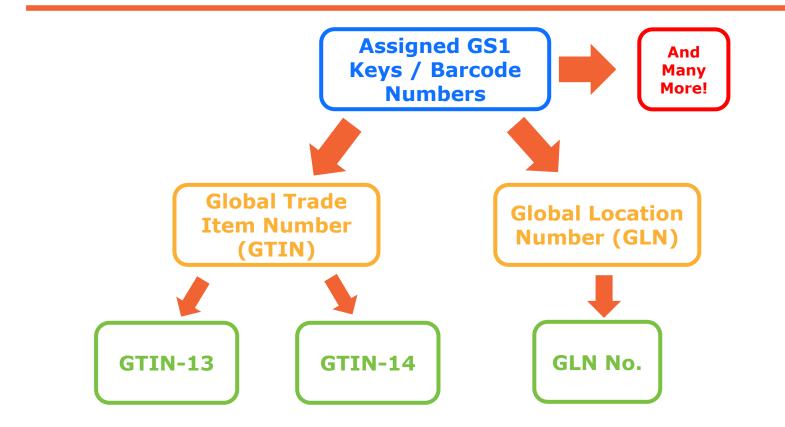


Preface

- This DIY Self Learning Material will provide you with details on:
 - The **Types** of GS1 Identification Keys
 - **Generating** GS1 identifiers
 - Assigning GS1 identifiers

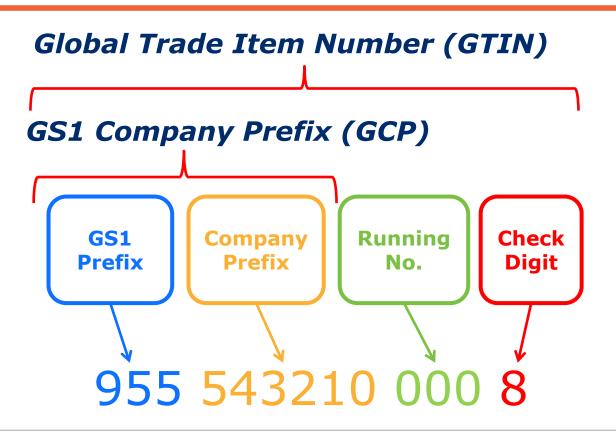


Types of GS1 Identification Keys





Breakdown of a GTIN-13





Breakdown of a GTIN-14



Carton Assigned as required by the member. It can use up to
 Identifier 8 separate carton indicators to indicate different carton
 (1 - 8): sizes, as long as they contain the same product unit inside.



Problems Generating your GTINs?

GS1 Malaysia's barcode number generation service can help you generate your barcode numbers for a modest fee:

GTIN-13 (Product-level / SKU)

RM 100.00 for 10 GS1 barcode numbers (Small Block Only) RM 375.00 for 250 GS1 barcode numbers RM 500.00 for 1,000 GS1 barcode numbers

GTIN-14 (Carton / Non-retail level)* RM 100.00 for 80 GS1 barcode numbers

Note: This service generates numbers only from your allocated GS1 licenses! * To use this service, you must provide GS1 with **10 x GTIN-13 barcode numbers** to serve as the **base barcode number** for the GTIN-14 generation.



GS1 Barcode Prefix Assignment



Malaysia	955		
Singapore	888		
China	690 - 699		
Australia	930 - 939		
USA	001 - 019		
France	300 - 379		
Philippines	480		
New Zealand	940 - 949		
Ireland	539		
Belgium & Luxembourg	540 - 549		
Japan	450 - 459		
	490 - 499		
Hong Kong	489		
Taiwan	471		



Scan for full list



Data Carrier = Barcode Symbol

What is a Barcode?

A series of dark bars and light spaces on a light background.



Each dark bar and light space arrangement represents a number or character !

Why Use a Barcode?

Fast and accurate capture of information into a computerised system, with little to no human error.



Commonly Used 1D GS1 Barcode Symbols



The EAN-13 barcode symbol is generated from a GTIN-13 barcode number. **Used to label products** *EAN = European Article Number.*



ITF-14

The ITF-14 barcode symbol is generated from a GTIN-14 barcode number. **Used to label cartons and trade items** *ITF = Interleaved.*



Used for **traceability** of products and trade items, for **inventory and logistical use**. Able to contain additional production information such as batch/lot, expiry date, etc.



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Definition of a Retail Unit & Non Retail Unit

Product Level / Retail Unit

- Usually scanned in a retail environment, through a Point of Sale (POS) System.
- Uses GTIN-13 for identification.
- Standard barcode symbol = EAN-13

Carton Level / Non-Retail Unit

- > Trade item not intended for sale in a retail environment.
- Created to facilitate operations of handling, storing, shipping and etc. of product units.
- Uses the **GTIN-14** for identification.
- Standard barcode symbol = ITF-14 or GS1-128
- If being traded at retail level, must be allocated with a GTIN-13 barcode number.









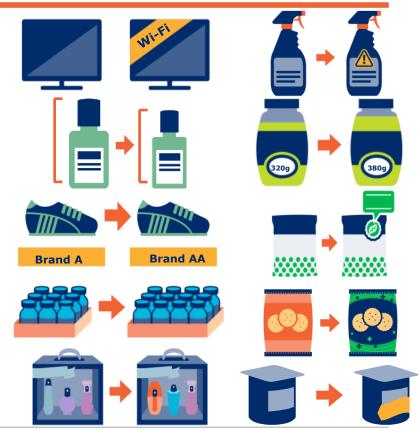
How to assign your Barcode Numbers



Global Trade Item Number (GTIN) Allocation Rules

10 Simple Rules:

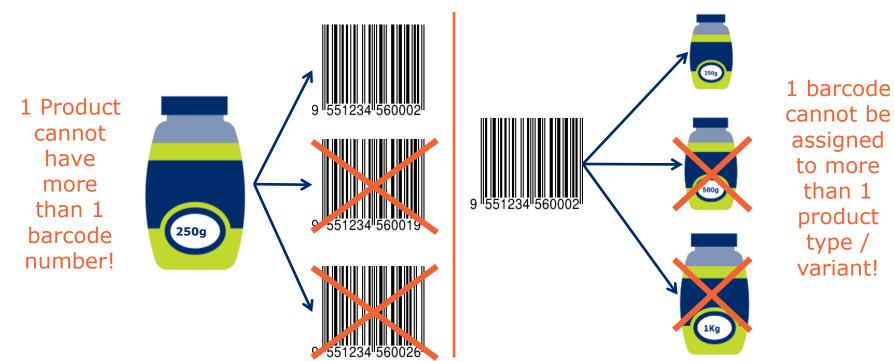
- 1. New Product Introduction
- 2. New Formulation / Functionality
- 3. New Net Content
- 4. Dimension / Weight Change
- 5. Add or Remove Certification Mark
- 6. Different Brand
- 7. Different Pack / Case Quantity
- 8. Time Critical / Promotional
- Change in Pre-Defined Assortment
 Price on Pack / R.R.P.





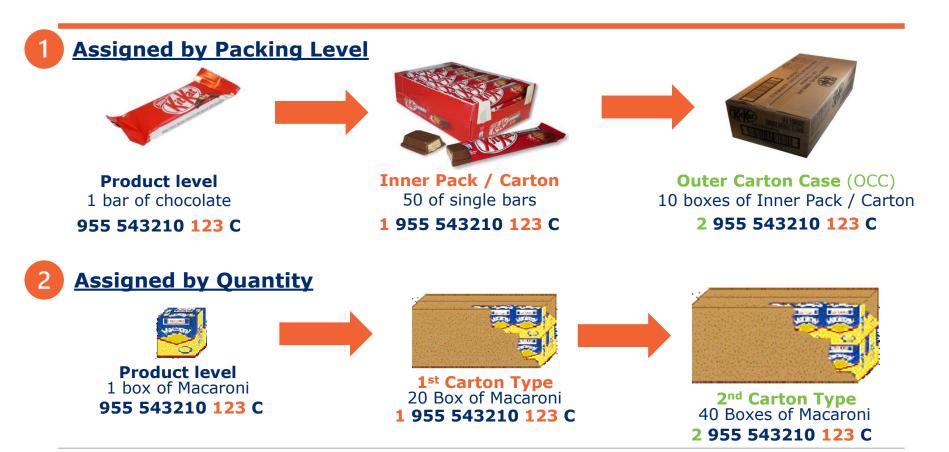
Most Basic Rule







Carton / Non-Retail Barcode Assignment Rules

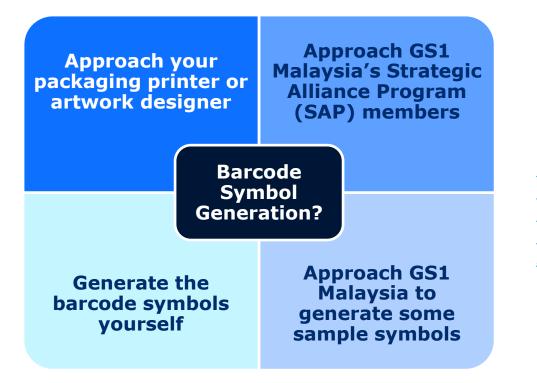




How to generate your Barcode Symbols



How to get GS1 barcode symbols?



Note: Kindly refer to the GS1 barcode symbol specifications here when you generate your barcode symbols:

https://gs1my.org/sites/default/files/Top ic%208%20-%20GS1%20DIY%20Self-Learning%20-%20GS1%20Barcode%20Specifications 2.pdf





Want to learn more?

Attend GS1 Malaysia's Capacity Building & Implementation Program to find out more!



GS1 MALAYSIA BRIEFING & TRAINING SCHEDULE

Free Briefings		Premium Training				
Fulfilling GS1 2D	GS1 2D	Potential with GS1 2D	Industry Focus Forums (Chargeable)			
Market & Regulatory Guidelines Using GS1 Standards	Standards and VbG-PDSS Fulfil Sustainability & Circularity		Topic 1: Supply Chain Optimisation and Regulatory Fulfilment using Global Location Number (GLN) and GS1 Services	Topic 2: Meeting Global Healthcare Guidelines using GS1 Standards	Topic 3: The Importance of GS1 Global Location Number (GLN)	In-House Training & Business Consultation (Chargeable)
3.00pm to 4.00pm (Every Monday and Wednesday)	11.00am to 11.45am (Every Thursday)	3.00pm to 4.00pm (Every Tuesday)	2 hours per session, 1 topic per session Session conducted by appointment only			• Training is tailored to
 Understand why GS1 Standards & Keys is widely recognised and accepted Learn why GS1 Standards & Keys protects product identity integrity and improves the Customer Buying Experience. 	- Learn how GS1 supports the global migration towards 2D Barcodes for greater product visibility, traceability, and authentication.	- Learn how GS1 supports the global migration towards 2D Barcodes for greater product visibility, traceability, and authentication.	 Comply with Retail Merchandising Principles Fulfil Global Regulatory Compliance Track & Trace using GS1 Traceability guidelines and 2D Datamatrix. 	 Achieve compliance with international and country-specific directives on Healthcare Products, such as US FDA GUDID, EU EUDAMED, China NMPA, UAE BrandSync, etc. 	 Compliance to EU directives such as EUDR, ESPR, CEAP, etc. on Sustainability and Circularity using GS1 unique identification (GTIN, GLN) Fulfil Digital Product Passport (DPP) requirements 	 company's requirements Can be conducted at company's premises of choice or via Zoom Full day session includes quiz activity Travelling charges will be incorporated into the training fees

* GS1 Malaysia reserves the right to adjust the sessions based on availability & minimum attendance.



Official GS1 Communications Channels Official GS1 Malaysia WhatsApp **Official GS1 Malaysia Emails**

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The Global Language of Business

(Strictly for Payment Only)

(Strictly for Payment Only)