The GS1 Barcodes

2D Barcodes

Data Matrix, QR Code, GS1 DataMatrix, GS1 QR Code and GS1 DotCode are two-dimensional (2D) barcodes that can carry all GS1 keys and attributes. they can be applied to hold trade item information such as the item expiry date, serial number or batch/lot number.

Note 1: For regulated healthcare trade items GS1 DataMatrix is the only allowed 2D barcode.

Note 2: GS1 Digital Link URI is the only allowed syntax for Data Matrix and QR Code.

Note 3: GS1 DotCode SHALL only be used to meet the requirements of the EU tobacco traceability regulation EU 2018/574

	QR Code (GS1 Digital Link URI	Data Matrix (GS1 Digital Link URI)	GS1 Data Matrix	GS1 QR Code	
2D Barcode with encoded data					
	https://example.com/01/09526000134367	https://example.com/01/09526000134367	(01)09521101530001 (17)210119(10)AB-123	(01)09521101530001 (17)210119(10)AB-123	
Symbology Identifier]Q1]d1]d2]Q3	נן
Capacity	Up to 7089 numeric capacity or 4296 alphanumeric capacity depending on the encoded data	Up to 3116 numeric capacity or 2335 alphanumeric capacity depending on encoded data	Up to 3116 numeric capacity or 2335 alphanumeric capacity depending on encoded data	Up to 7089 numeric capacity or 4296 alphanumeric capacity depending on the encoded data	Tł ca er
GS1 Keys	All GS1 keys per approved application	All GS1 keys per approved application	All GS1 keys per approved application	All GS1 keys per approved application	AI
Attributes?	Yes – Example includes expiry date 19- January-2021 (AI 17) and batch/lot AB-123 (AI 10)	Yes – Example includes expiry date 19- January-2021 (AI 17), batch/lot AB-123 (AI 10)	Yes – Example includes expiry date 19-January- 2021 (AI 17), batch/lot AB-123 (AI 10)	Yes – Example includes expiry date 19-January- 2021 (AI 17) and batch/lot AB-123 (AI 10)	Ye Al (t

Please refer to the GS1 General Specifications "Application Standards" for standardised use of the barcodes - https://www.gs1.org/standards/barcodes-epcrfid-id-keys/gs1-general-specifications

