

Appendix A: UDI HRI formats

GS1 Sample UDI labels:

http://www.gs1.org/sites/default/files/docs/healthcare/udi_label_samples_-_20150317.pdf

Issuing Agency/Entity	Qualifier	Identifier	Data type	Human Readable Field Size	Database Field Size
GS1	(01)	DI (GTIN)	Numeric	18 (incl. identifier + data delimiter)	. 14 digits . digit characters '0' to '9'
GS1	(11)	Manufacturing/ Production Date	numeric [YYMMDD]	10 (incl. identifier + data delimiter)	. 6 digits . digit characters '0' to '9'
GS1	(17)	Expiration Date	numeric [YYMMDD]	10 (incl. identifier + data delimiter)	. 6 digits . digit characters '0' to '9'
GS1	(10)	Batch/Lot Number	alphanumeric	24 (max) (incl. identifier + data delimiter)	. 20 (max) . GS1 AI encodable character set 82*
GS1	(21)	Serial Number	alphanumeric	24 (max) (incl. identifier + data delimiter)	. 20 (max) . GS1 AI encodable character set 82*
GS1		Maximum Base UDI	alphanumeric	86	66
ex: (01)09506000117843(11)141231(17)201231(10)1234AB(21)5678CD					

* See Table 7.11.1 of the GS1 General Specifications:

https://www.gs1.org/docs/barcodes/GS1_General_Specifications.pdf

Appendix B: AIDC carriers most widely used in healthcare

1. GS1 Standards

- GS1 DataMatrix with UDI-DI and UDI-PI's (Expiration Date + Lot/Batch Number)



(01)09506000117843
(17)201231
(10)1234AB

- GS1 DataMatrix with UDI-DI and UDI-PI's (Expiration Date + Lot/Batch Number + Serial Number)



(01)09506000117843
(17)201231
(10)1234AB
(21)5678CD

- GS1-128 concatenated with UDI-DI and UDI-PI's (Expiration Date + Lot/Batch Number)



(01)09506000117843(17)201231(10)1234AB

- GS1-128 non-concatenated (shared in 2 parts)

a) UDI-DI only



(01)09506000117843

b) UDI-PI's (Expiration Date + Lot/Batch Number)



(17)201231(10)1234AB

- EAN13 with UDI-DI only



9 506000 117829

Appendix C: Examples of RFID carriers

1. GS1 Standards

The data encoded in a GS1 barcode can also be encoded in a RFID (radio frequency identification) tag, provided that a serial number is part of the data elements. In this case, it is advisable to apply an RFID emblem to the label/packaging/device, to indicate the presence of an RFID tag.

ISO/IEC 29160 specifies the design and use of an optional, “generic” RFID emblem. That standard also makes provision for the use of other signs, such as the GS1 EPC symbol.

The GS1 EPC symbol indicates that a unique EPC (Electronic Product Code) is encoded onto an RFID tag. GS1's EPC Tag Data Standard (TDS) defines the Electronic Product Code – including its representation at various levels of the GS1 Architecture – and specifies the memory contents of EPC/RFID Tags.

Current GS1 guidelines do not yet address specific placement of the RFID emblem on a label. Applicable CEN standards state that, in the absence of an appropriate application standard, the RFID Emblem shall be placed such that it is easily visible to those trying to read the RFID tag or label. To improve readability, the RFID Emblem should be located near the actual transponder. The visuals below are for example only.

