

## PRODUCT IDENTIFICATION

### GLOBAL ARTICLE NUMBER GTIN

Identify products worldwide without any overlaps | GS1 Standards

The Global Trade Item Number (GTIN) ensures that each product and each product variant is identified worldwide without any overlap. The GTIN is like a fingerprint for goods and thus makes every product unique.

#### Access to product information by GTIN

The GTIN is a 13-digit number. It serves as a key to access the database, in which the following product information is stored, for example: description, weight, container size or product group. On smaller articles, on which the long number cannot be applied, an 8-digit short number will be used.

#### How is the GTIN structured?

The GTIN consists of the base number of your company's Global Location Number (GLN), the sequence of digits you have assigned and a checking digit.

The GLN can be purchased with GS1 Complete. The GLN serves as a basis for the creation of your article numbers. The following procedure should be chosen:

- The GTIN starts with 7, 8 or 9 digits of your GLN
- Then the assignment of the sequential number occurs for example: 001, 002, 003
- Finally, the checking digit is added, which has to be calculated for each newly assigned GTIN. This can be determined using the free GS1 checking digit calculator.

| Global article item number (GTIN) |               |                   |              |
|-----------------------------------|---------------|-------------------|--------------|
|                                   | base number   | Individual number | Check number |
| 4 0                               | 1 2 3 4 5     | 0 0 0 0 0         | 9            |
| 4 2                               | 1 2 3 4 5 6   | 0 0 0 0           | 5            |
| 4 3                               | 1 2 3 4 5 6 7 | 0 0 0             | 5            |

## Barcode based on the GTIN

The GTIN enables processes to be made more efficient and error-free. A prerequisite for this is that the GTIN is mapped in a machine-readable form. Therefore b+b offers different barcode solutions.



## Special case: Articles with a high number of variants

For some articles the allocation of the GTIN is difficult. This is the case for products that are configured by the customer. An example of this is e.g. furniture where the customer can choose the colours, types of wood or handles. A clear identification of the GTIN and an electronic exchange of information is possible, there are so-called concepts for articles with many variants.

## Implementation of GTIN

The company b+b Automations- und Steuerungstechnik GmbH as a GS1 partner offers various solutions for the implementation of the marking requirements. Our contact persons will be happy to help you finding the best economic marking solution for your requirements and general conditions.