



# duagon Network Component (Product) Ordering Guide

## Application Note

This document describes how a Product Name is built, how a correct Network Component Order String can be created and how a specific Network Component can be ordered.

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# 1. Introduction

A duagon Network Component normally consists of a Hardware and a Firmware, whereas different Firmwares can be put on a specific Hardware. The combination of the Hardware with the Firmware defines the exact functionalities of each Network Component. Some special Network Components only consist of a Hardware or of a Firmware.

During the lifetime of the Network Components some modification can be unavoidable, e.g. to expand the life cycle of the Network Component. This will generate different revisions of the Hardware and different revisions of the Firmware. Especially during a transition from one revision to another, it is important to define which revision should be delivered. This can be defined in the Network Component String.

This guide shows how to generate such a Network Component String.

## 2. Network Component Order String generation

### 2.1 Overview of the Network Component Order String systematic

Figure 1 shows the systematic of the Network Component Order String. It consists of

1. the Product Name (Product Family Name + Options)
2. the Hardware Number
3. and the Firmware Number

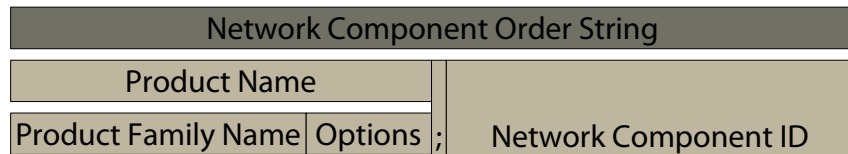


Figure 1: Network Component String systematic

### 2.2 Product Name

The Product Name describes the product functionality. This Product Name is formed by the use of the Product Family Name, f. ex. D017M, and the appropriate Options. e.g. -P-T-I1-Y-UNC.

Every duagon Product Family is described in a detailed data sheet containing the Products Family Name and the Order Information Table. An example of such an order information table can be found in figure 2. This order information table describes the different Options, that can be selected within a Product Family. As an example "D017M-P-T-I1-Y-UNC" describes the Product Family and the selected Options and forms the Product Name.

D017M	-PM	B	-D	-I1	-Y	-M3
<b>MVB Function:</b>						
Process Data (MDFULL)	-P					
Message Data Stack (SERVER2)	-PM					
<b>MVB Bus Administrator:</b>						
with Bus Administrator		B				
without Bus Administrator		<empty>				
<b>MVB Type:</b>						
EMD			-T			
ESD+			-D			
<b>MVB Receiver Insensitivity</b>						
Standard RS485				-I0		
150mV (recommended)				-I1		
350mV				-I3		
<b>Front End:</b>						
Internal Transceivers, 20pin Connector					-Y	
Internal Transceivers, 10pin Connector					-I	
External Transceivers, 10pin Connector					-X	
None <sup>1)</sup>					-N	
<b>Sub-D Bolt</b>						
UNC						-UNC
M3						-M3
None						-N

Figure 2: Order Information Table of D017M as an example

## 2.3 Ordering the newest Hardware and Firmware

In the previous section a Product Name has been defined. This Product Name describes the functionality but does not exactly describe the Hardware Revision nor the Firmware Revision. With knowing only the Product Name it is possible to generate a Network Component Order String which will lead to a delivery of the newest Hardware and the newest Firmware. To be sure, that receiving the newest Hardware and the newest Firmware is the customers intention, this must be indicated by the additional 'n' at the end of the Product Name separated by a semicolon. Following an example of a correct Network Component Order String:

D017M-P-T-I1-Y-UNC;n

An order placed with this Network Component Order String will lead to a delivery of the newest Hardware and the newest Firmware available for this Product Name.

## 2.4 Specific Hardware Revision, specific Firmware Revision

In case of the need of a specific Hardware Revision or a specific Firmware Revision, this must be indicated by the use of the Product Name Number and the full NCID Number separated by a semicolon. This results in the following example of a correct Network Component Order String:

D017M-P-T-I1-Y-UNC;NCID010844

An order placed with this Network Component Order String will lead to a delivery of the Network Component with the NCID010844 which combines a specific Hardware Number and a specific Firmware Number.

### 2.4.1 Hardware & Firmware revision numbering

Every Hardware Number and every Firmware Number consists of a Document Number and a Revision Number. The Revision Numbers are unique numbers, that identify exactly the Hardware Revision or the Firmware Revision. An example of a Hardware Number or a Firmware Number is given in the following line:

d-000732-003023

Document Number – Revision Number

For additional information about the duagon Numbering System see Appendix A: Document Numbering System

## 2.5 Customer specific Firmware

In case of a customer specific Firmware, duagon will generate a Network Component ID (NCID) which combines the customer specific Firmware Number with a specific Hardware Number. An example for such a Network Component Order String is:

D017M-P-T-I1-Y-UNC;NCID012342

## 2.6 Products with either only a Hardware or only a Firmware

Some special products do only have a Hardware without the need for a Firmware (f.ex. starter Kits). On the other hand, some products only include Software without the need for a Hardware (f.ex. special drivers). In this case a correct Network Component Order String will also consist of the Product Name and the NCID. Internally only the firmware or the hardware is linked to this NCID. Hereinafter an example of such a Network Component Order String:

D205M;n or  
D205M;NCID005231

## Overview of the Network Component String possibilities

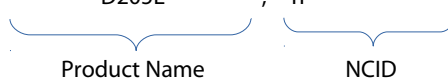
The following table shows the different Network Component String generation possibilities.

	Product Name	NCID	Comments
1	D017M-P-T-I1-Y-UNC	n	The newest Hardware and the newest Firmware will be delivered
2	D017M-P-T-I1-Y-UNC	NCID023123	A specific Hardware and Firmware will be delivered which is combined in the NCID
5	D205E	NCID000432	A specific Hardware (there is no Firmware for this Network Component) will be delivered which is defined in the NCID
6	D205E	n	The newest Hardware will be delivered. There is no Firmware belonging to this product.

Table 1: Network Component Ordering possibilities

### 2.7 Network Component Order String examples

D017M-P-T-I1-Y-UNC ; n  
 D017M-P-T-I1-Y-UNC ; NCID023123  
 D205E ; n



## 3. Implementation / ordering process

### 3.1 Offers

The exact Product Name is mentioned in the offers. There is normally no information about the Hardware and the Firmware in the offers. Offers are generally related to the newest Hardware and the newest Firmware.

#### 3.1.1 Example of an Offer

Product Name

**Description:** duagon PC104 – MVB Interface

**Part No.:** D113LF.T-P4BXU

With Bus Administrator

### 3.2 Ordering duagon products

As the offer does not show the NCID Number nor the Hardware Number nor the Firmware Number, the first choice is to order the newest Hardware and the newest Firmware. Please indicate this by communicating the complete Network Component Order String as described in section 2.3 when you place an order. duagon highly recommends to order the newest products like D113LF.T-P4BXU;n.

If a specific Hardware or a specific Firmware is needed, the NCID can be found on an Order Confirmation of a previously ordered product or on a Delivery Note of an already delivered product. (See next sections on where to find the NCID Number).

In case of any questions, please contact your Technical Sales Manager at duagon.

### 3.3 Order Confirmation

The Order Confirmation will inform about the Product Name, the NCID, the Hardware Number, the Firmware Number and the related Network Component Order String.

#### 3.3.1 Example of an Order Confirmation

Pos.	Description	Qty.	Unit	Price	Del. Week	Total
1	Product Name: <b>D113L.T-P4BXU</b>	20	pc	800	W 20/15	16'000
	Network Component Order String: <b>D113L.T-P4BXU;NCID001792</b>					
	Network Component ID: NCID001792 (includes Hardware No and Firmware No)					
	Hardware No (PN): d-001792-000768					
	Firmware No (FN): d-000758-005496					
	Product Description: MVB Interface					
	Cust Art. No.: 54325.234-2.432					
	Comments: Specification according to the data sheet available on <a href="http://www.duagon.com">www.duagon.com</a>					

### 3.4 Delivery Note

On the Delivery Note the customer can identify the delivered products with the Product Name, the NCID, the Hardware Number, the Firmware Number and the related Network Component Order String.

#### 3.4.1 Example information on the delivery note

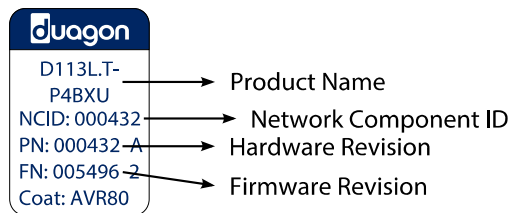
Your reference: 54123456543  
 Package content: 20  
 Product Name: D113L.T-P4BXU  
 Network Component Order String: D113L.T-P4BXU;NCID001792  
 Network Component ID: NCID001792  
 Hardware Number: d-001792-000768  
 Firmware Number: d-000758-005496

### 3.5 Product Labels

Every product is labelled with a specific Product Label. This label will show the Product Name, the Hardware Revision and the Firmware Revision. To keep the labels small, only the unique Revisions Numbers will be shown on the labels. See the document "Labelling and Packaging" for the information about the other information on the labels (d-000778-nnnnnn).

#### 3.5.1 Default duagon Product Label

The standard duagon Product Label shows the following information:





## 4. Related documents

### Labelling and packaging of duagon products – d-000778-nnnnnn

Labelling and packaging of duagon products.

## 5. Contact at duagon

For further assistance or in case of any questions, please contact duagon Sales Department:

Email: [info@duagon.com](mailto:info@duagon.com)

Phone: +41 44 743 73 00

## 6. Document History

### d-013426-023256

Extended the order string with the Document Number of the Hardware and Firmware

### d-013426-022548

First Revision

## Appendix A: Document Numbering System

All duagon documents have a unique identification number. The identification number has a certain internal structure in order to ease the tracking of different documents. In general, there are two parts:

Prefix	Document number	Filing number
d	-000310	-001952
Always constant	<p>Specifies a certain purpose of a document with the intention to link several documents with different filing number.</p> <p>Please note, that the purpose of the document number is not stored for each document number, but can be derived from the document title, which is stored for each Filing number.</p> <p>The format is either 6 digits or not available.</p>	<p>Unique number, that identifies a particular document. Released in sequential manner as the documents are filed in the archive. A duagon- internal data base contains exactly one document title text for each filing number.</p> <p>Always 6 digits.</p>

Examples for identification numbers

Identification number	Document Title / Remarks
d-000310-001606	„DXIO data sheet Rev 2.2“
d-000310-001952	<p>„DXIO data sheet Rev 2.3“</p> <p>A document, that is updated from time to time: the document number has the purpose to link several versions of the „DXIO data sheet“ together. The filing number distinguishes between different versions.</p> <p>Please note, that the document number part is kept the same, as long as the basic intention of the early versions is still kept, for example during revisions due to debugging or manufacturing updates.</p> <p>In case a significant change happens, another document number would be applied.</p>
d-000719	<p>„Notes from prototype meeting ...“</p> <p>A document, that is obviously not updated after release. The „document number“ part is missing and the filing number remains the only used part for identification.</p>

Recommendation:

In your order, you may specify for example "d-000584-nnnnnn" in order to get the "newest" version of a specific product. When you do not want to follow the sequence of newer versions, i.e. you want to stick to a specific version, then specify the full identification number like "d-000584-002043".