

# General Specifications

Model VP6F3100  
Project I/O License



GS 33J15A10-01EN

[Release 6]

## ■ GENERAL

Project I/O license is an essential license to manage I/Os in a VP project. The number of project I/O licenses is determined by the number of process I/Os and communication I/Os used in the VP project. (\*1)

The project I/O License is applicable to the FCSs below:

AFV30S, AFV30D, AFV40S, AFV40D, A2FV50S, A2FV50D, A2FV70S, and A2FV70D

\*1: When using the test function in a simulation environment, a project I/O license is not required.

## ■ FUNCTIONAL SPECIFICATIONS

The number of project I/O licenses is based on the number of logical I/O points calculated by the numbers of process I/Os and communication I/Os separately.

200 logical I/O points are equivalent to one project I/O license.

The number of logical I/O points divided by 200 is the required number of project I/O licenses. If there is a surplus when divided, one additional project I/O license is required.

### ● Calculating the Number of Logical I/O Points

The number of logical I/O points is counted by each module in the following manners: however, redundancy in the I/O modules is not counted.

#### Process I/Os

The number of physical I/O terminals of analog I/O modules, digital I/O modules and analog digital I/O modules is counted as the logical I/O points intactly.

FOUNDATION fieldbus communication module (ALF111) is classified into this calculation method, and counted as 32 points for the logical I/O points.

$$\begin{aligned} \text{Logical I/O points of process I/Os} = & \Sigma(\text{The number of physical I/O terminals of analog I/O modules}) \\ & + \Sigma(\text{The number of physical I/O terminals of digital I/O modules}) \\ & + \Sigma(\text{The number of physical I/O terminals of analog digital I/O modules}) \\ & + \Sigma(\text{Logical I/O points of FOUNDATION fieldbus communication modules}) \end{aligned}$$

#### Communication I/Os

##### (1) Method-1

Logical I/O points calculation method for CENTUM VP R6.01 to R6.04.

$$\text{Logical I/O points of communication I/Os} = \Sigma(\text{communication I/O points}) (*1) / 4$$

##### (2) Method-2

Logical I/O points calculation method for CENTUM VP R6.05 or later.

$$\text{Logical I/O points of communication I/Os} = \Sigma(\text{Quasi logical I/O points of each communication I/O module}) - 100 (*2)$$

\*1: The number of real communication I/Os is counted per word (16 points delimitation).

\*2: Maximum 100 is subtracted from the total number of quasi communication I/O points of ALE111, ALP1□1, and ALR1□1.

Quasi logical I/O points are shown in the table below.

Model	Name	Quasi logical I/O points
ALE111	Ethernet communication module	250
ALP111, ALP121	PROFIBUS-DP communication module	250
ALR111, ALR121	Serial communication module	180
AGP813	Turbomachinery high speed protection module	40
AGS813	Turbomachinery servo module	50
A2LP131 (*1)	PROFINET communication module	250

\*1: Supported by CENTUM VP R6.07.00 or later.

However, when revision update from R6.01 - R6.04 to R6.05, the method-1 is kept continuously.

### ● Checking the Number of Logical I/O Points

When online or offline downloading any project data to FCS, the number of logical I/O points is checked whether it is within the number of points allocated by the project I/O licenses. If the number of logical I/O points exceeds the number of points allocated by the project I/O licenses, downloading is not performed correctly.

When using the test function in a simulation environment, the number of logical I/O points is not checked.

### ● Confirming the Number of Logical I/O Points

The number of points allocated by the project I/O licenses and the number of logical I/O points in the VP project can be confirmed on the FCS resource information dialog in the System View. The number of logical I/O points for each FCS can also be confirmed on the dialog.

## ■ MODELS AND SUFFIX CODES

		Description
<b>Model</b>	VP6F3100	Project I/O License
<b>Suffix Codes</b>	-V	Software license
	1	always 1
	1	English version

Note: The project I/O license is applicable to 200 logical I/O points per license.

## ■ ORDERING INFORMATION

Specify model and suffix codes.

## ■ TRADEMARK ACKNOWLEDGMENT

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