

General Specifications

Model NT358AJ
OPC Server Driver



GS 34P02G08-01E

■ GENERAL

*This optional OPC server driver is used to connect third-party OPC servers to the VDS (Versatile Data Server Software) or ASTMAG (*1).*

*1: ASTMAG is Japanese domestic market only (Not sales for overseas).

■ SYSTEM REQUIREMENTS

The system requirements follow those required for VDS specified in VDS Versatile Database Server Software, GS 34P02A02-01E, or for the ASTMAG base type specified in ASTMAG Overview, GS 34P02A03-01E.

Note that the runtime version of OPC Server Driver does not allow the user to make or modify settings and only allows the monitoring.

■ FUNCTIONAL OVERVIEW

The OPC server driver makes the I/O object perform as an OPC client and exchange data with third-party OPC servers. OPC (OLE for Process Control) specifications are the standard for exchanging data between two or more industrial system programs. The driver allows the VDS/ASTMAC system to connect with PLCs or OPC servers provided by other manufacturers and read and write data from devices to the VDS/ASTMAC device tag objects or set data through the servers.

FUNCTIONAL SPECIFICATIONS

● Interface Specifications

Interface: OPC DA 2.0

Method of access to device data: By means of OPC data acquisition methods

Asynchronous data reception: Not supported

Number of OPC servers connected: 32 max.

The following table lists the interfaces and methods defined by OPC DA 2.0 and used by the OPC server driver. OPC servers must have these interfaces and methods incorporated to be connected.

Specification	Object	Interface	Method	
DA	OPCServer	IOPCServer	AddGroup	
		IConnectionPointContainer		
	OPCGroup	IOPCGroupStateMgt		GetState
				SetState
		IOPCItemMgt		AddItems
				ValidateItems
				RemoveItems
				SetActiveState
		IOPCAsyncIO2		Read
				Write
				Cancel2
				Refresh2
				SetEnable
		IOPCDataCallback		OnDataChange
				OnReadComplete
				OnWriteComplete
	IConnectionPointContainer			

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Although the method shown below is not required for data access, if an OPC server supports it, a shutdown of the OPC server can be detected on the VDS or ASTMAC.

Specification	Object	Interface	Method
Common	OPCServer	IOPCShutdown	ShutdownRequest

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● **Relationship with Device Tag Objects**

The following table shows the relationship between the OPC data types and corresponding device tag objects. Data types that are not listed below are not supported.

Data Type		Device Tag Object Type
Simple	VT_BOOL	DI,DO
	VT_I2	AI,AO
	VT_UI2	AI,AO
	VT_I4	XAI,XAO
	VT_UI4	XAI,XAO
	VT_R4	XAI,XAO
	VT_BSTR	TXT
Array	VT_BOOL	DR
	VT_I2	AR
	VT_UI2	AR
	VT_I4	XAR
	VT_UI4	XAR
	VT_R4	XAR

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■ **MODEL AND SUFFIX CODES**

Model	Suffix Code	Description
NT358AJ	-LW11A	OPC Server Driver

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■ **ORDERING PROCEDURE**

Specify the model and suffix codes.

■ **RELATED DOCUMENTS**

- VDS, GS 34P02A02-01E
- ASTMAC Overview, GS 34P02A03-01E

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