

# General Specifications

Model NT365AJ  
DARWIN Driver



GS 34P02H05-01E

## ■ GENERAL

The NT365AJ DARWIN driver is an optional software package that interconnects Yokogawa's DARWIN data acquisition unit with a Versatile Data Server Software (VDS) system or ASTMAC (\*1) system. This driver also allows DAQSTATION recorders to be linked to the VDS/ASTMAC system.

\*1: ASTMAC 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 ASTMAC base type specified in ASTMAC Overview, GS 34P02A03-01E.

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

## ■ FUNCTION SPECIFICATIONS

### ● Interface

Ethernet (TCP/IP)

### ● Functionality

- Acquisition of instantaneous values (measured data, computed data)
- Acquisition and output of relay statuses (for DA100 data acquisition unit only)
- Control Command Transmission  
Start or stop computation, clear computed results  
Alarm ACK  
Start or stop sampling(\*1)

\*1: Only DAQSTATION can transmit the control command "start sampling" or "stop sampling".

### ● Communication Protocols

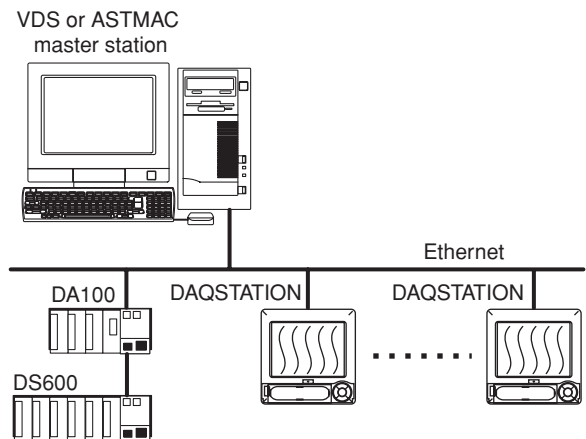
Supported instruments:

- DA100 data acquisition unit
- DR230/240 hybrid recorders
- DX100/200/100P/200P/CX1000/CX2000 DAQSTATION paperless recorders (\*1)

\*1: In the communication with CX1000 or CX2000, the VDS/ASTMAC system can only read the measurement channel #1 to #20 and PV/SP/OUT channel #101 to #118 and #201 to #248.

### ● System Configuration

The driver allows for interconnection of up to 32 DARWIN units per master station.



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● Relationship between Types of Device Tag Object and I/O Address Settings

DARWIN Units

Type of Device Tag Object		I/O Address		
		Measured / computed Data	Relay Information	Control Command
DI	Digital input		√	
DO	Digital output		√	
DR	Digital register (for input)		√	
	Digital register (for output)		√	
AI	Analog input			
AO	Analog output			√
AR	Analog register (for input)			
	Analog register (for output)			√
TXT	Text (for input)			
	Text (for output)			
XAI	Extended analog input	√		
XAO	Extended analog output			
XAR	Extended analog register (for input)	√		
	Extended analog register (for output)			
XTX	Extended text (for input)			
	Extended text (for output)			
BD	Block data (for input)	√		
	Block data (for output)			

√: Available Blank: Not available

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DAQSTATION

Type of Device Tag Object		I/O Address	
		Measured / computed Data	Control Command
DI	Digital input		
DO	Digital output		
DR	Digital register (for input)		
	Digital register (for output)		
AI	Analog input		
AO	Analog output		√
AR	Analog register (for input)		
	Analog register (for output)		√
TXT	Text (for input)		
	Text (for output)		
XAI	Extended analog input	√	
XAO	Extended analog output		
XAR	Extended analog register (for input)	√	
	Extended analog register (for output)		
XTX	Extended text (for input)		
	Extended text (for output)		
BD	Block data (for input)	√	
	Block data (for output)		

√: Available Blank: Not available

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## ■ MODEL AND SUFFIX CODES

Model	Suffix Code	Description
NT365AJ	-LW11A	DARWIN Driver

T03E.EPS

## ■ ORDERING PROCEDURE

Specify the model and suffix codes.

## ■ RELATED DOCUMENTS

- VDS, GS34P02A02-01E
- ASTMAC Overview, GS34P02A03-01E

## ■ TRADEMARKS

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- Ethernet is a registered trademark of Xerox Corporation, USA.
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