General Specifications

Model NT365AJ DARWIN Driver

STARDOM **VDS**

GS 34P02H05-01E

■ GENERAL

The NT365AJ DARWIN driver is an optional software package that interconnects Yokogawa's DAQSTATION recorders with a Versatile Data Server Software (VDS) system. This driver also allows SMARTDAC+ (GX/GP paperless recorders, GM data-logger) to be linked to the VDS system.

■ SYSTEM REQUIREMENTS

The system requirements follow those required for VDS specified in VDS Versatile Database Server Software, GS 34P02A02-01E.

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, external input data, control data)
• Acquisition and output of relay statuses
• Control Command Transmission
  Start or stop computation, clear computed results
  Alarm ACK
  Start or stop sampling memory (*2)

  *1: Collection and output of a relay are impossible in SMARTDAC+ GX/GP.
  *2: Only DAQSTATION can transmit the control command "start sampling" or "stop sampling".

● Supported Instruments
• DX1000/DX2000/DX1000N/DX100/200/100P/200P/ CX1000/CX2000 DAQSTATION paperless recorders (*1) (*2)
• GX10/GX20/GP10/GP20 SMARTDAC+ paperless recorders Relese 2 (Ver 2.01.01) or later (*3)
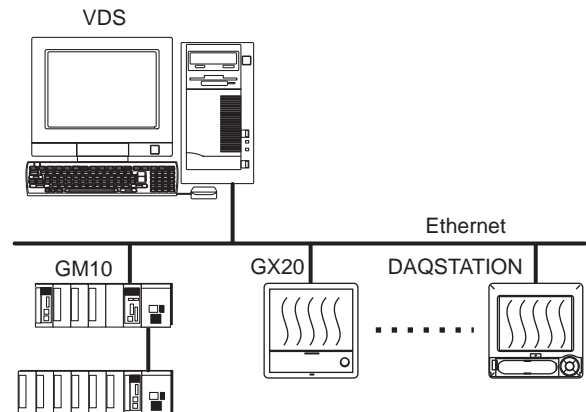• GM10 SMARTDAC+ data-logger (*3)

  *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.
  *2: DX1000/DX2000/DX1000N with advanced security functions (optional code: /AS1) are not supported.
  *3: Connects by DARWIN compatible communication. Refer to the GS and IM of SMARTDAC+. Communication Login settings can not be used.

● System Configuration
The driver allows for interconnection of up to 32 units.

F01E.ai

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

DAQSTATION (DX100/DX200/DX100P/DX200P/CX1000/CX2000)

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

X: Available   Blank: Not available

DAQSTATION (DX1000/DX2000/DX1000N)

Type of Device Tag Object		Measured / External input data	Computed Data (Double precision)	Relay Information	Control Command
DI	Digital input			X	
DO	Digital output				
DR	Digital register (for input)			X	
	Digital register (for output)				
AI	Analog input				
AO	Analog output				X
AR	Analog register (for input)				
	Analog register (for output)				X
TXT	Text (for input)				
	Text (for output)				
XAI	Extended analog input	X			
XAO	Extended analog output				
XAR	Extended analog register (for input)	X			
	Extended analog register (for output)				
XTX	Extended text (for input)				
	Extended text (for output)				
WAI	Wide analog input		X		
WAR	Wide analog register (for input)		X		
BD	Block data (for input)	X			
	Block data (for output)				

X: Available   Blank: Not available

SMARTDAC+ (GX10/GX20/GP10/GP20/GM10) by DARWIN compatible communication

Type of Device Tag Object		I/O Address		
		Measured / Computed Data	Relay Information (*1)	Control Command
DI	Digital input		X	
DO	Digital output		X	
DR	Digital register (for input)		X	
	Digital register (for output)		X	
AI	Analog input			
AO	Analog output			X
AR	Analog register (for input)			
	Analog register (for output)			X
TXT	Text (for input)			
	Text (for output)			
XAI	Extended analog input	X		
XAO	Extended analog output			
XAR	Extended analog register (for input)	X		
	Extended analog register (for output)			
XTX	Extended text (for input)			
	Extended text (for output)			
BD	Block data (for input)	X		
	Block data (for output)			

X: Available   Blank: Not available
*1:   GM10 only

■ MODEL AND SUFFIX CODE

Model	Suffix Code	Description
NT365AJ	-LW11A	DARWIN Driver

■ ORDERING INFORMATION
Specify the model and suffix codes.

■ RELATED DOCUMENT
• VDS, GS 34P02A02-01E

■ TRADEMARKS
• STARDOM is a trademark of Yokogawa Electric Corporation.
• DARWIN is a registered trademark of Yokogawa Electric Corporation.
• Ethernet is a registered trademark of Xerox Corporation, USA.
• Other company and product names appearing in this document are trademarks or registered trademarks of their respective holders.