

# Using ST3000 Series

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## 1. Supported Models

Run Setup.exe to support the following ST3000 Series models.

Series Name		Trade Name/Model Type	Type
ST3000	ST-3200	AST-3201A (SIO)	AST3201-A1-D24-K
		AST-3211A (MPI)	AST3211-A1-D24
	ST-3300	AST-3301B	AST3301-B1-D24
		AST-3301S	AST3301-S1-D24
	ST-3400	AST-3401T	AST3401-T1-D24
	ST-3500	AST-3501C	AST3501-C1-D24
			AST3501-C1-AF
		AST-3501T	AST3501-T1-D24
			AST3501-T1-AF

## 2. Pro-face® Software Compatibility

When converting projects created with Digital's GP-PRO/PBIII for Windows (\*.prw) into GP-Pro EX projects (\*.prx), the display unit is converted as follows.

Convert From				Convert To
Series Name	Type	GP Type	Display Unit	
ST400 Series	ST400	ST400-AG41-24V	ST400	AST-3201A
	ST401	ST401-AG41-24V	ST401	
	ST402	ST402-AG41-24V	ST402	AST-3211A
	ST403	ST403-AG41-24V	ST403	AGP-3200A

### NOTE

- The ST400 Series function key settings, and logic, sound, and video cannot be converted.
- The change backlight color function on the ST403 can be converted on the AGP-3200A
- First convert ST400/401/402 to AGP-3302B, then run Setup.exe. After the conversion, you cannot convert back to a GP type.

### 3. Features Supported

The following describes the features supported by each model.

		AST-3201A (SIO)	AST-3211A (MPI)	AST-3301B	AST-3301S	AST-3401T	AST-3501C	AST-3501T
○: Supported ●: Limited to certain models ×: Not supported								
ST3000 Series								
Drawing with 256 Colors*1	—	×	×	×	○	×	×	○
Faded Blink	☞ Page 5-114	×	×	×	○	○	○	○
Simultaneous communication with multiple devices/PLCs	☞ Page 7-3	○*2	○*2	○*2	○*2	○*2	○*2	○*2
LAN Connection	☞ Page 7-7	×	×	×	×	×	×	×
Modem Transfer	☞ Page 33-49	○	○	○	○	○	○	○
SIO Transfer (COM Connection)	☞ Page 33-62	○	○	○	○	○	○	○
CF-Card Connect Function for Transfer Tool	☞ Page 33-28	×	×	×	×	○*3	○*3	○*3
CF Memory Loader Tool	☞ Page 33-36	×	×	×	×	○	○	○
USB Memory Loader Tool Function	☞ Page 33-36	○	○	○	○	○	○	○
Backup SRAM's CF Save	☞ Page 5-129	×	×	×	×	○	○	○
Alarm History (CSV save)	☞ Page 19-54	○*4	○*4	○*4	○*4	○	○	○
Sampling Data (CSV Save)	☞ Page 24-20	○*4	○*4	○*4	○*4	○	○	○
Recipe Transfer (Transfer CSV Data)	☞ Page 25-9	○*4	○*4	○*4	○*4	○	○	○
Edit data in CSV Display	☞ Page 25-30	○*4	○*4	○*4	○*4	○	○	○
Filing Data Save	☞ Page 25-42	○*4	○*4	○*4	○*4	○	○	○
File Manager Feature	☞ Page 25-86	○*4	○*4	○*4	○*4	○	○	○
Display JPEG Files on CF-Card	☞ Page 9-63	×	×	×	×	×	×	×
Screen Capture	☞ Page 12-17	×	×	×	×	×	×	×
Script (Operate CF File)	☞ Page 21-35	×	×	×	×	○	○	○
AUX	☞ Page 26-10	×	×	×	×	×	×	×
Sound Output Feature	☞ Page 26-3	×	×	×	×	×	×	×
Record/Play Movies	☞ Page 27-12	×	×	×	×	×	×	×
Video Module	☞ Page 27-50	×	×	×	×	×	×	×
Logic Programing	☞ Page 29-3	×	×	×	×	×	×	×
Variable Settings	☞ Page 29-39	×*5	×*5	×*5	×*5	×*5	×*5	×*5
Variables Holding Function	☞ Page 29-75	×	×	×	×	×	×	×
I/O Series Settings	☞ Page 31-5	×	×	×	×	×	×	×
Remote PC Access	☞ Page 36-2	×	×	×	×	×	×	×
Device monitor*6	☞ Page A-41	○	○	○	○	○	○	○
Ladder monitor*6	☞ Page A-41	×	×	×	×	×	×	×
Reverse Display	☞ Page 5-114	○	○	○	×	×	×	×
Change Backlight Color	☞ Page 5-156	○	○	×	×	×	×	×
Backlight burnout detection	☞ Page 5-115	×	×	×	×	×	×	×
Cross Cursor Display	—	○	○	○	○	○	○	○
Portrait Orientation	☞ Page 5-79	○	○	○	○	○	○	○
User Screen Area 8 MB	☞ Page 6-5	×*7	×*7	×*7	×*7	×*7	×*7	×*7

\*1 For information about the display color please refer to the Hardware Manual or see ■ Supported Colors.

\*2 Up to two drivers can be connected simultaneously.

\*3 Supported only when connected by USB transfer cable.

\*4 Possible using a USB storage device. A CF-Card cannot be used.

\*5 Variables can be set up to 1000 pts.


\*6 Depends on device/PLC settings.

\*7 User Screen Area is 6M.

## ■ Supported Colors

Model	Display Unit	Display Color	Designated Number of Colors in Drawing
AST-3201A	Monochrome LCD (Amber)	8 Levels, 1 Speed Blink	Monochrome 8 Levels
AST-3211A			
AST-3301B	Blue-mode Monochrome LCD	8 Levels, 1 Speed Blink	Monochrome 8 Levels
AST-3301S	TFT Color LCD	256 Colors, No Blink 64 Colors, 3-Speed Blink	256 Colors 64 Colors
AST-3401T	TFT Color LCD	256 Colors, No Blink 64 Colors, 3-Speed Blink	256 Colors 64 Colors
AST-3501C	TFT Color LCD	16 Colors, 1-Speed Blink	16 Colors
AST-3501T	TFT Color LCD	256 Colors, No Blink 64 Colors, 3-Speed Blink	256 Colors 64 Colors

## 4. Differences with the GP

- The ST3000 Series has fewer functions than the GP3000 Series.  
 "3. Features Supported" (page 3)
- On the ST3000 Series, when using fonts other than [Japanese Standard], [ASCII Standard], or [ASCII Stroke] font, these fonts are stored in the User Screen Area.
- When using the Memory Loader Tool, the filename for back up data is defined as follows.

Model	Backup File Name
AST-3211A(MPI), AST-3201A(SIO), AST-3301B, AST-3301S	MEM3X0XZ.CML
AST-3401T, AST-3501C, AST-3501T	MEM3X01Z.CML

- Just like in the GP-3200 Series, you can display a cross-cursor showing the touch position in the ST3000 Series. The setting should be done in offline mode. For more information about how to set the cross-cursor or offline mode, please see "Maintenance/Troubleshooting Guide - Maintenance" replacing "GP-3200 Series" with "ST Series".
- When [Check COM1/COM2/LAN] is selected in offline mode, COM2 is used only for MPI in the AST-3211A (MPI). In this case, a loopback cable is not required to be connected to check the COM2.
- When [Check Display Pattern] is selected in the offline mode of the AST-3501C, only 16-color patterns are displayed.
- The [Change Color Tone] button is not displayed in the offline mode of the AST-3501C.