SAMBA[™]

Full-function PLC with built-in beautiful full-color touch-screen, & onboard I/O configuration. Great look, incredible price.

Features:

HMI

- Display: Color touch-screen
 3.5" 320 x 240, 4.3" 480x272, 7" 800 x 480
- · 24 user-designed screens and 40 images per application
- . HMI graphs color-code Trends
- · Built-in alarm screens
- Text String Library easy localization
- Memory and communication monitoring via HMI - No PC needed

PLC

- I/O options: Digital, Analog, including High-speed
- Auto-tune PID, 2 independent loops
- · Recipe programs and data logging via Data Tables
- Date & Time-based control

Communication

- TCP/IP via Ethernet
- · Send e-mail function
- SMS messaging
- GPRS/GSM
- Remote Access utilities
- MODBUS protocol supported
- · CANbus: CANopen, UniCAN, SAE J1939, and more
- DF1 Slave
- Programing Port: RS232 for 3.5" model, USB for 4.3" & 7"
- 2 ports may be added: 1 Serial (RS232/RS485)/Ethernet
 4 1 CANbus



SAMBA 3.5"



SAMBA 4.3"



SAMBA 7"

It really enhanced our product's look and flexibility.

Ralph Hannmann, President of Alyan Pump Company

	SAMBA		
Article Number	SM35-J-R20	SM35-J-T20	
	SM43-J-R20	SM43-J-T20	
	New SM70-J-R20	New SM70-J-T20	
	10 Digital Inputs	10 Digital Inputs	
	2 Digital /Analog ¹	2 Digital /Analog	
	8 Relay Outputs	8 Transistor Outputs	
Inputs	, ,		
Digital	12	12	
HSC/Shaft-Encoder/Max. Freq. Measurer ^{2,3}	1 32-bit 30 kHz	3 32-bit 30 kHz	
Analog	2: 10-bit, 0-10v	2: 10-bit, 0-10v	
	0-20mA, 4-20mA	0-20mA, 4-20mA	
Outputs	,	,	
Digital	8 relay	8 pnp	
High-Speed Outputs/PWM	None	Outputs 0 to 6 can be used as PWM outputs 0.5 kHz	
Analog	None		
I/O Expansion			
,	Remote I/Os via CANbus		
Program			
Application Memory SM35		Application Logic: 112kb • Images: 1 MB • Fonts: 512 k	
SM43	Application Logic: 112kb • Images: 2 MB • Fonts: 512 k Application Logic: 112kb • Images: 5 MB • Fonts: 512 k		
New SM70 Scan Time	Application Logic: 112kb • Images: 3 MB • Folits: 512 k 15µS per 1K of typical application		
Memory Operands	512 coils, 256 registers, 32 long integers (32-bit), 32 double words (32-bit unsigned), 24 floats,		
wichiory Operanus	32 timers (32-bit), 16 counters. Additional non-retainable operands: 64 X-bits, 32 X-integers, 16 X-long integers, 16 X-double words		
Data Tables	32K dynamic RAM data (recipe parameters, datalogs, etc.), up to 16K fixed data		
SD Card (Micro)	None		
Enhanced Features	Trends: graph any value and display on HMI • String Library: instantly switch HMI language		
Operator Panel			
Type & Colors	TFT LCD • 65,536 colors • 16 bit resolution • Brightness - Adjustable via touchscreen or software		
Display SM35	Resolution: 320 x 240 pixels • Size: 3.5" (QVGA)		
SM43 New SM70	Resolution: 480 x 272 pixels • Size: 4.3" Resolution: 800 x 480 pixels • Size: 7"		
Touchscreen	Resistive, Analog		
Keys	Displays virtual keyboard when the application requires data entry		
General	υιδριάγο ντιτιαί κογουατά πτιστι τισ αμμισατίστι τσημίσο ματά στια γ		
Power Supply	DAVDO		
.,,,	24VDC		
Battery Clock	7 years typical at 25°C, battery back-up for RTC and system data, including variable data		
	Real-time clock functions (date and time)		
Environment Standard	NEMA4X/IP66/IP65 (when panel mounted) CE, UL		
Standard	Many of our products are also UL Class 1 Div 2 and GOST certified - please contact Unitronics		

 $^{^{1}\,}$ When selecting NPN for the digital inputs, the 2 Analog inputs cannot be used.

 $^{{}^2 \ \, \}text{Certain inputs can function as high-speed counters, shaft-encoder inputs, or normal digital inputs.}$

This specification depends on cable length