SVGA Color-Touch OCS

New Large Screen Color-Touch Series

The OCS400, 500 and 600 series adds large screen, high resolution color-touchscreens to the Operator Control Station (OCS)* product line. The new large screen Color-Touch OCS products feature 8", 10", and 12" displays, 800 x 600 resolution, over 32,000 colors, a standard Ethernet port, a CompactFLASH™ (CF) slot and seven function keys. I/O options include SmartStack™ I/O using the fiber optic FOX I/O system and the new SmartStix™ I/O. The Cscape™ Windows-based software combines ladder logic programming and graphics in one development system and allows easy portability of applications among all SVGA models, providing effortless scalability.

The SVGA Color-Touch OCS integrates the features and functionality of color operator interfaces and programmable controllers using a single programming software. Color-Touch OCS provides fully functional ladder logic capability, powerful graphics objects to quickly and simply build panel replacement screens, the ability to import and animate bitmaps to build sophisticated screens, and the ability to import fonts for multi-language applications. For process monitoring applications, Color-Touch OCS supports charting, trending and alarm management, and data can be stored on CompactFLASH.

SVGA Color-Touch OCS Family

The operator interface used in the large screen Color-Touch OCS series is an SVGA color LCD display (TFT) with a resistive 8.4", 10.4" or 12.1" touchscreen. It has one dedicated and seven configurable function keys, offering the advantages of both a touchscreen and a function key based display. For advanced applications requiring motion video, a video option is available at an added cost. This option will provide four NTSC/PAL video inputs. In addition to the application graphics, live video from any NTSC/PAL source (camera, DVD, VCR, and vision sensor) can be shown on the display.

I/O, Communication Options for Any Application

Choose SmartStack I/O, SmartStix I/O or use both with a Color-Touch OCS. Accommodate up to 20 SmartStack I/O modules using the fiber optic FOX I/O system or use SmartStix I/O, a terminal-block style I/O for applications requiring large numbers of remote digital I/O. SmartStix I/O connects to any Color-Touch OCS CsCAN™ network port. In addition to the CsCAN port that also allows you to network OCS units, there are many other communication connectors. An Ethernet TCP/IP port supports several industrial protocols including Modbus/TCP, SRTP, CsCAN over Ethernet and Ethernet Global Data. Three serial ports support Modbus/RTU slave and master, ASCII Read/Write and CsCAN serial protocol using either RS-232 or RS-485.

Features & Benefits:

- Dual processors, one for logic and one for screen update, provide high performance (0.7 ms/K logic scan time)
- High resolution 800 x 600 SVGA displays—8.4", 10.4" and 12.1"
- Seven configurable function keys and touchscreen capability
- 32,767 colors, 15-bit color depth
- CompactFLASH slot
- Ethernet port, CsCAN port plus three serial ports

- Can install or have operator select up to four pre-loaded languages per application
- Ability to add up to eight additional fonts, created or captured from Windows
- Optional NTSC/PAL video inputs
- Supports SmartStack I/O using fiber optic FOX I/O system or SmartStix I/O may be mounted up to 6000 ft (1500 meters) from the OCS using repeaters
- Fully compatible with Cscape 6.0 (or later) software

* OCS combines a logic controller, operator interface, network and I/O in a highly integrated package, reducing installation cost, development time and hardware cost.

Built-in CompactFLASH™

High Resolution

Configurable Function Keys

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Specifications

Color-Touch Models

	OCS451 (8-inch)	OCS551 (10-inch)	OCS651 (12-inch)
Display Type (LCD with backlight)	800 x 600 TFT	800 x 600 TFT	800 x 600 TFT
Display Size	8.4"	10.4"	12.1"
Display Screen Dimensions	6.7"W x 5.0"H (170 x 128mm)	8.3"W x 6.2"H (211 x 159mm)	9.7"W x 7.3"H (246 x 185mm)
Display Memory	8 MBytes	8 MBytes	8 MBytes
User Keys	7 configurable keys + system key		
Screens Supported	1023 screens (up to 300 objects per screen)		
Number of Colors	32,768, 15-bit color depth		
Primary Power	24VDC(+/–10%) 0.92A @ 24VDC Inrush Current 25A for 0.7ms.	24VDC(+/–10%). 1.25A @ 24VDC Inrush Current 30A for 1ms	
Height	7.0" (178mm)	9.09" (231.0mm)	10.22" (259.6mm)
Width	9.17" (233mm)	11.96" (303.8mm)	12.85" (326.4mm)
Mounting Depth	3.7" (94mm)	3.7" (94mm)	3.7" (94mm)
Keypad Material	Faceplate made of Lexan® HP92 by GE Plastics. The material is resistant to most corrosive substances found in industrial environments. The material also holds up well in most industrial conditions.		
Protocols Supported/Serial Ports:	CsCAN, Modbus Master, Modbus Slave, and ASCII Read and Write		
Protocols Supported/CAN Ports:	CsCAN (up to 253 drops) or DeviceNet™ Slave (Explicit Messaging, Polled Connection, Polled Snooping)		
Serial Ports	3 RS-232 / RS-485 Ports. Each software selectable.		
Network Ports	1 CAN (DeviceNet Slave or CsCAN Peer)		
Communication Options	On-board Ethernet supports TCP/IP with EGD and SRTP, CsCAN TCP, Modbus TCP Slave		
Expansion I/O	Up to 20 SmartStack I/O Modules via fiber optic FOX I/O System		
Remote I/O	Up to 252 SmartStix I/O Modules via CsCAN (CAN network) interface		
Microprocessor(s)	Intel embedded (control); Hitachi SH3-DSP (graphics); Fujitsu Orchid (graphics accelerator)		
Control Memory	256K Ladder Memory plus 32KB Register Space		
Control Scan Rate	0.7mS / K Ladder Logic (typical)		
Portable Memory	CompactFLASH (CF) slot		
Temperature & Humidity	32–122°F (0–50°C), 5 to 95% non-condensing		
UL	Class I, Groups A, B, C, D, Division 2		
CE	To maintain FCC and CE Radiated Emissions limits, you must install a ferrite (part number: 0461164181 available from Fair-Rite Corporation) within 25mm from the OCS end of the Ethernet cable. EN 50081-2 (Emissions), and EN 61000-6-2 (Immunity) in compliance with the EMC Directive 89/33C/EEC		

Part Numbers

Part Numbers	Description
HE500OCS451	8.4" Color-Touch OCS with 800 x 600 Resolution, 32000+ Colors
HE500OCS551	10.4" Color-Touch OCS with 800 x 600 Resolution, 32000+ Colors
HE500OCS651	12.1" Color-Touch OCS with 800 x 600 Resolution, 32000+ Colors
HE500VIM400	Video Input Card (optional)

Standard Ethernet Port

Supports SmartStix™ I/O

10" Color-Touch OCS

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