01 / Product and system dashboard

SIEMENS

6AV6648-0CE11-3AX0

Touch Operator Panel

Product role

Siemens 6AV6648-0CE11-3AX0 is a Smart 1000 IE V3 touch panel with a 10.1-inch TFT display, Ethernet and RS-422/485 connectivity.

Controller
Configured process connection

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Smart 1000 IE V3
Touch HMI project

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Operator
Values, alarms and recipes

Engineering scope

Specifications apply to Smart 1000 IE V3; V4 and V5 hardware values and capabilities are not transferred to this model.

02 / Verified identity and technical relationships

Property	Applicable fact	Property	Applicable fact
Product designation	Smart 1000 IE V3	Ethernet ports	1
Display	10.1-inch TFT touch screen	Serial interface	1 shared RS-422/485; no RS-232
Resolution	1024 × 600 pixels	USB interface	1 host USB type A
Colors	65,536	Engineering software	WinCC flexible SMART V3
Supply	24 V DC; permissible 19.2–28.8 V DC	Protection	IP65 front; IP20 rear
Current consumption	230 mA rated; 370 mA maximum	Variable capacity	800 per device
Processor	ARM, 600 MHz	Screen capacity	150 configurable screens

Configuration boundary

Specifications apply to Smart 1000 IE V3; V4 and V5 hardware values and capabilities are not transferred to this model.

03 / Applications and system integration

Operator visualization

Display and enter configured process values on the touch screen, with communication matched to the controller.

Alarm handling

Use configured bit and analog alarms with acknowledgment and the retentive message buffer.

Recipe selection

Manage process recipes within the panel limits and validate transferred values against the machine application.

Legacy HMI replacement

Retain the V3 identity, project backup and communication settings when replacing an installed panel.

Functional context

The panel operates from 24 V DC within a permissible range of 19.2–28.8 V DC. Rated current consumption is 230 mA and maximum consumption is 370 mA. Communication connections comprise one Industrial Ethernet port, one shared RS-422/485 interface and one USB host interface; it has no RS-232 interface or SD card slot. Ethernet connectivity does not make it a PROFINET IO device.

04 / Service and installation decisions

Isolate the panel

Switch off and isolate the panel supply and place the connected machine in a safe state before removal.

Preserve the project

Back up the HMI project and communication settings before changing the installed panel.

Check DC power

Use the specified 19.2–28.8 V DC range and account for maximum current consumption of 370 mA.

Match the interface

Check Ethernet or RS-422/485 wiring and the selected communication driver; do not treat this panel as a PROFINET IO device.

Check mounting conditions

Maintain the front seal and rear cabinet protection. Confirm orientation-dependent temperature and inclination limits.

Verify operator functions

Test touch input, process values, alarms and recipe transfer under controlled conditions before returning the machine to service.

05 / Reference basis and related portfolio

Lifecycle and supply

Product cancellation; supplied as a spare part. Request current support and replacement guidance using the complete 6AV6648-0CE11-3AX0 identity. Apter Power availability is confirmed separately in the quotation.

Reference basis

Siemens 6AV6648-0CE11-3AX0 data sheet, 28 September 2026.

Apter Power technical summary; not a manufacturer-issued manual. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Siemens 6AV3627-1QL00-0AX0

Siemens 6AV2123-2JB03-0AX0

Siemens 6AV6545-0CA10-0AX0

Discuss your installed configuration

Send the full unit marking and connection details.

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