Allen-Bradley 2711-T10C8X

COMPLETE PRODUCT INFORMATION / technical and application dashboard

Allen-Bradley 2711-T10C8X is a PanelView 1000 Color touch-screen operator terminal using DH+ controller communication and a separate RS-232 peripheral port. Its application and network settings must be retained for the installed machine.

01 Product identity and operating role

Complete identity
2711-T10C8X

Product function
PanelView 1000 Color Touch Screen Operator Terminal

Supply scope
Offer the exact 2711-T10C8X touch terminal as confirmed by its nameplate. The application file, controller network settings and external cables require separate review.

System family
PanelView 1000 Color

Engineering priorities

Project preservation
Archive the actual PanelBuilder32 application and record its firmware and screen behavior before removal.

Network acceptance
Prove the DH+ connection using the configured controller address and real data transactions.

Touch acceptance
Test every used touch target and alarm acknowledgement in an approved machine state.

System context

Allen-Bradley 2711-T10C8X identifies a PanelView 1000 Color touch terminal with a color TFT screen. The 640 x 480 display and 24-by-16 touch-cell grid are the operator interface; the installed PanelBuilder32 application determines which cells become controls and what values appear.

The selected controller communication path is DH+, with a distinct RS-232 port for printer or application-transfer duties. The DH+ station must have a unique node address and matching network speed. Restoring the screen file alone does not prove controller data exchange; preserve the network configuration and verify a live read/write path after installation.

The unsuffixed catalog selection uses AC input. For a replacement, compare the exact 2711-T10C8X nameplate and series, panel cutout, supply wiring, installed application and peripheral cable. Record the as-found alarm and touch behavior, then commission each used function against the approved machine sequence.

Installed terminal signal path

Operator to terminal	The loaded project maps touch cells to screen actions and controller write points.
Terminal to controller	The configured DH+ connection exchanges values with the selected PLC.

Terminal to peripheral	The distinct RS-232 port can serve printing or application transfer.

02 Technical capability map

T10C8 base communication code and 1000C family technical values are documented; preserve the X suffix from the user-confirmed nameplate and verify the supplied series.

Operator terminal family	PanelView 1000 Color
Operator input	Touch screen
Display technology	Color active-matrix TFT with CCF backlight
Active display area	211 x 158 mm
Pixel resolution	640 x 480
Touch-cell matrix	384 cells, 24 columns x 16 rows
Touch-cell footprint	26 x 30 pixels
Controller interface	DH+
Separate peripheral interface	RS-232 printer and application transfer
Engineering software	PanelBuilder32
Application flash	1008 KB nonvolatile plus 310 KB runtime for 1000 color family

Input supply	85–264 V AC, 47–63 Hz; no L1 DC suffix
Maximum AC consumption	55 VA maximum for AC 1000 color family
Operating ambient	0 to +55 °C
Storage ambient	−25 to +70 °C
Relative humidity	5–95%, non-condensing, over operating range
Front protection	NEMA Type 12/13 and 4X indoors; IP54/IP65, when correctly installed
Status indicators	Green COMM and red fault indicators
Application storage	ATA memory card supported
Real-time clock	Battery-backed, serviceable module
Field backlight	Replaceable; 50,000 h half-life at 25 °C for 1000 color family

03 Integration and use

Operator process view

Present controller values, status and alarm objects assigned by the saved PanelBuilder32 project.

DH+ controller station

Exchange project-mapped values through the installed DH+ network and its configured node or rack.

Touch command entry

Send project-defined touch-screen actions only after validating the controller permissives.

Maintenance recommissioning

Restore the approved project and test display, controller transactions and any used RS-232 peripheral.

Technical decisions

Project identity	The PanelBuilder32 application defines screens, touch cells, alarm behavior and controller addresses.
Network selection	This base order code selects DH+; the separate RS-232 port is for peripheral and transfer duties.

Power selection	The absence of L1 identifies the AC supply selection; verify against the actual nameplate.
Controller configuration	Record the installed node or rack allocation and configured network speed before replacement.
Display service	Distinguish a screen or backlight fault from an independent communications fault using status indicators.
Touch mapping	Prove every used cell and controller permissive with the restored application.
Memory boundary	Keep the original project and firmware identity with the terminal maintenance record.
Peripheral path	Check RS-232 printing or transfer only where used in the installed application.
X suffix	Preserve the complete nameplate suffix; the user confirmed the physical offered condition separately.
Acceptance	Log complete marking, project version, live controller exchange and operator test results.

04 Installation and diagnostic review

Project archive

Retain the installed application, firmware identity and controller addressing before removing the terminal.

Supply isolation

Verify AC input and protective earth using the approved electrical procedure before energizing.

Network wiring

Check DH+ cable, termination, interface settings and controller status against the installed drawing.

Panel fit

Compare the terminal bezel, panel cutout and depth with the actual enclosure before mounting.

Screen mapping

Verify every used touch cell, navigation path, alarm and acknowledgement after project restoration.

Peripheral separation

Treat the RS-232 printer/transfer lead as distinct from the controller network.

Technical FAQ

How should the application on 2711-T10C8X be preserved before a terminal change?	Archive the PanelBuilder32 project and its revision, record firmware and network settings, and capture representative screens and alarms. Restore the approved file before proving machine operation.
Why can 2711-T10C8X show its project yet fail to update live controller values?	The display can run independently of a healthy DH+ connection. Check controller state, cable, network addressing and the project data map before replacing the terminal.
What should be checked if a touch target on 2711-T10C8X selects the wrong function?	Compare the active screen and programmed touch-cell assignment with the loaded project. Inspect touch calibration and controller permissives; test in an approved machine state.
How can the RS-232 port on 2711-T10C8X be distinguished from its controller link?	Trace the cable to the printer or transfer computer and review port settings. The controller data path is DH+; an RS-232 peripheral connection does not replace its network configuration.
What evidence is needed before reusing a stored application on 2711-T10C8X?	Match terminal family, firmware, project revision, communications selection and controller tag or address map. Compare a test screen and an approved live transaction before release.

How should a dark but otherwise communicating 2711-T10C8X be investigated?	Check display brightness and backlight condition while observing COMM and fault indications. Confirm input power under load and follow the applicable backlight maintenance procedure for the actual series.

05 Service and acceptance

Alarm absent

Compare controller alarm bit, project trigger and terminal acknowledgement state.

Network interruption

Read the terminal diagnostic code and compare DH+ wiring and settings with the installed drawing.

Intermittent reset

Measure AC input during startup and check cabinet temperature and wiring.

Peripheral failure

Trace the separate RS-232 printer or transfer path.

Variant mismatch

Compare complete catalog suffix and series before applying a saved project.

As-left record

Retain live-data, used-touch, alarm and network recovery test results.

Lifecycle and supply boundary

A current manufacturer lifecycle phase for this complete marking has not been established. Confirm support for the installed series, firmware, application and DH+ network before planning a replacement.

Evidence and applicability

Rockwell Automation PanelView Standard Operator Terminals User Manual, 2711-UM014G-EN-P, September 2008. T10C8 base communication code and 1000C family technical values are documented; preserve the X suffix from the user-confirmed nameplate and verify the supplied series.

Additional installation context: Rockwell Automation PanelView Standard Terminal Specifications, 2711-TD007A-EN-P.

Variant boundary

PanelView Standard terminals vary by screen size, communication port, supply and series. Preserve this exact complete nameplate and the installed application; do not treat a nearby order code as an electrical replacement.

Discuss the complete marking with Apter Power.
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