MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GE

IC755CSS12CDB-QB

12-INCH QUICKPANEL+ OPERATOR INTERFACE REVISION QB

Used with the applicable QuickPanel+ configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: GE QuickPanel+ product brochure

12" QuickPanel+™

Operator Interface for the Industrial Internet



Streamline your system and simplify development and maintenance with one powerful device for both your operator interface (OI) and control requirements. The QuickPanel+, OI for the Industrial Internet, is a multi-functional device that delivers actionable data and insight—smarter, faster and easier than ever before.

QuickPanel+ integrates process control, view, and an option to run embedded data historian to improve real-time control and simplify integration into plant-wide systems. The QuickPanel+ takes machine interfaces into the Industrial Internet age for new levels of productivity, insight, and user experience.

To succeed in an outcome-driven world, businesses must operate faster and leaner and be increasingly connected. At GE's Automation & Controls, we understand today's connected business environment, and are committed to simplifying it. That's why we've designed an automation architecture that helps you design better machines and plants, operate them smarter, and redefine the interaction with your equipment.

High Performance

With faster processing speeds and more memory, QuickPanel+ delivers high-performance control, visualization, and data historian capabilities to maximize productivity and cost efficiency, even in third-party environments.

QuickPanel+ incorporates the latest display and multi-touch technology to enhance the user experience. The capacitive, multi-touch screen is built to last in an industrial environment, yet is as sensitive as the latest smartphone or tablet. The wide screen provides vivid, clear images and more complete process visualization. Double-tap or pinch to view your interface at up to 400% and tap twice to return to original size. Swipe to navigate between interactive schematics.

Multi-functional Capability

QuickPanel+ provides core capabilities that help users operate in today's connected world. It's an all-in-one OI: an OI/HMI, a PLC/process controller, machine gateway, and a data historian. This combination puts more data at your fingertips, providing instant insight and control while reducing inventory and TCO. Remote programming technology makes it easy to access user accounts through a single access point. And, a single object-based programming environment means implementation is fast and easy.

Full-Function Browser & Multimedia Access

QuickPanel+ offers a fully-functional web browser and multimedia support with the Windows EC7 operating system. This results in a new level of versatility for an OI. Users can quickly and easily access the Internet or their intranet to view training videos, compile reports or access other critical information.

Interoperability & Flexibility

The plug-and-play interoperability of the QuickPanel+ adds to its ease of use and implementation. Using serial and Ethernet connectivity, it can be used with controllers and I/O from multiple vendors for swift and smooth implementation. Enjoy the functionality of a PC — such as remote connectivity through VNC, web browser, built-in peer networking, SNMP, and FTP and HTTP servers — without the IT headaches.

QuickPanel+ supports 5 IEC 61131-3 programming languages: Ladder Diagram (LD), Sequential Function Chart (SFC), Structured Text (ST), Instruction List (IL), and Function Block Diagram (FBD). The operator can select multi-language support when the system is online. Configuration is easy — a common database reduces development time by eliminating the need to re-enter tag names, and an extensive library of pre-configured animation objects is provided.

Specifications

Processor Node
- Freescale i.MX535 1GHz based on ARM Cortex A8
- 2D/3D Graphics Processing Unit
- 32KB Level 1 Instruction/Data Caches
- 256KB Level 2 Unified Instruction and Data Cache
- NEON SIMD Media Accelerator
- Vector Floating Point Coprocessor

Memory
- 1GB DDR3 SDRAM
- 512MB SLC NAND Flash
- 512KB Battery Backed SRAM

Display
- 12" TFT LCD
- 800 x 600 SVGA Resolution
- Projected Capacitive Display
- Multi-touch (two-point)

Ethernet Port
- 1x 10/100BaseT (RJ-45) on IC755CxS12CDA
- 2x 10/100BaseT (RJ-45) on IC755CxS12CDB

Serial I/O
- 1x RS-232, 1x RS-485 COM Ports (10-Pin Connector) on IC755CxS12CDA
- 1x RS-232, 1x RS-485 COM Ports (two 5-Pin Connectors) on IC755CxS12CDB

USB
- 2x USB 2.0 (Type-A)
- 1x USB 2.0 (Mini Type-B)

Storage
- 1x SD/SDHC Card Slot

Audio
- x1 Line Out (stereo) (3.5mm Jack)

Status Indicators
- Tri-color LED (Amber/Green/Red)
- On-board Buzzer

Operating System
- Microsoft® Windows® Embedded Compact 7

Power Requirements
- +12/24VDC ±20% (3-Pin Connector)
- Max power Consumption: 30W

Physical Specification
- External Dimensions: 314(W) x 248(H) x 65(D) mm
- Weight: 3Kg

Mounting Option
- Panel Cutout Dimensions: 302(W) x 228(H) mm
- Panel Mount Brackets Included
- Mounting Gasket
- VESA 100

Environmental
- Cooling Methodology: Natural Convection
- Operating Temp: 0°C to +55°C
- Storage Temp: -10°C to +60°C
- Humidity: 85% RH (non-condensing) @ 30°C

Compliance
- UL Listed US/CAN Hazardous locations: Class 1 Division 2, Class 2 Division 2, Class 3 Division 1
- ATEX Zone 2/22 for IC755CSS12CDBCA
- DNV on IC755CSS12CDBCA
- UL TYPE 4X
- CE (EN 60950-1, EN 61000-6-4, 61000-6-2)
- FCC Part15 Class A
- IP65F (JEM 1030)
- RoHS



Ordering Information

Operator Interfaces

IC755CSS12CDB	QuickPanel+ View & Control, 12" Color TFT with Multi-touch Projected Capacitive Screen, dual Ethernet ports, GE Monogram Bezel, 24 VDC Powered
IC755CBS12CDB	QuickPanel+ View & Control, 12" Color TFT with Multi-touch Projected Capacitive Screen, dual Ethernet ports, Blank Bezel, 24 VDC Powered
IC755CSS12CDBCA	QuickPanel+ View & Control, 12" Color TFT with Multi-touch Projected Capacitive Screen, dual Ethernet ports, GE Monogram Bezel, 24 VDC Powered, Conformal Coated

Accessories

IC755ACC12GAS	QuickPanel+ 12" Replacement Gasket
IC755ACC12MNT	QuickPanel+ 12" Accessory Kit - Replacement Mounting Clips, Power & Serial Port Connectors
IC755ACC12PRO	QuickPanel+ 12" Replacement Screen Protectors, Package of 3
IC755ACCBATTNL	Replacement Battery (No Leads), for use with 12"

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