QX Series

Color-Touch OCS Controllers

A powerful All-In-One controller with vibrant color graphics, embedded Ethernet, snap-on I/O and a variety of available screen sizes, 8.4˝, 10.4˝, 12.1˝ and 15˝.

- Fast Logic Scan & Screen Updates
- Bright TFT Screens
- SVGA & XGA Resolution, 32K Colors
- Snap-on I/O with Optional Backpack
- Embedded Ethernet, Web-enabled and CompactFLASH®
- PLC/Drive Protocols Optional
- >500 KHz HSC and PWM
- Complex Graphical Objects
- Full Alarming Package
- Four Selectable Languages

Made in the USA

Featuring a fast, powerful logic engine, SVGA resolution touchscreens and optional snap-on I/O, the QX Series has three screen size options, 8.4˝, 10.4˝, 12.1˝ and 15˝, and a typical logic scan rate of 0.2mS/K. In addition, the QX has embedded Ethernet and supports many Internet capabilities such as remote data access, programming, hosting HTML-based Web pages, and FTP file serving. Plus, it has a built-in CompactFLASH® slot that allows users to easily store machine or process data (up to 2GB). Programs can be updated and loaded through CompactFLASH, a real advantage for OEMs or those supporting distant sites.

Backpack Options Add Local and Remote I/O
The QX Series has two backpack options, HE-BP41 & HE-BP43 - with high speed counter. Both are compact and easy-to-install on the back of the QX base unit. With any backpack installed, up to two SmartStack I/O modules can be snapped on. Additionally, backpack users can connect hundreds of local or remote I/O using our Fiber Optic (FOX) Expansion I/O and our SmartStix terminal-type I/O modules.

Video Input Option Allows Machine Viewing and More Security
For applications who need to integrate security, view machinery in remote locations, or need to incorporate a machine vision monitor with their control system, the QX video input option allows four channels of NTSC or PAL video to be connected to provide video viewing and capture capability. Users can view video with the full frame rate at VGA resolution. Video can also be viewed freeze frame, and/or saved as a single frame to CompactFLASH. A separate control register allows the controller to automatically freeze or save video snap-shots based on the machine state.
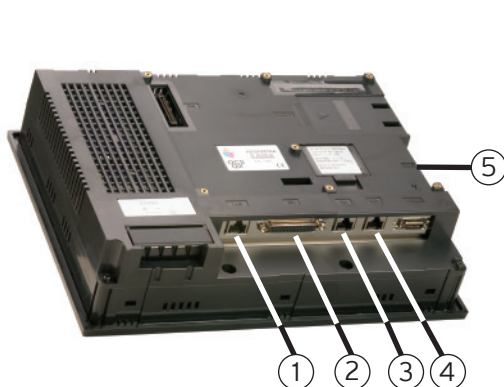
QX Series Specifications

	HE-QX451	HE-QX551	HE-QX651	HE-QX751
App. Programming Environment	Cscape (logic plus screen development–ladder or full IEC-1131)			
Display Size	8.4"	10.4"	12.1"	15"
Display Technology	LCD TFT Display with SVGA (800 x 600) Resolution & 32K Colors			XGA (1024x768)
CompactFLASH Slot	YES	YES	YES	YES
Ladder Logic Memory	256K Bytes	256K Bytes	256K Bytes	256K Bytes
Register (Reference) Memory	32K Bytes	32K Bytes	32K Bytes	32K Bytes
Logic Scan Rate	0.2mS/K (typical)*	0.2mS/K (typical)*	0.2mS/K (typical)*	0.2mS/K (typical)*
Embedded Ethernet	10/100Mbit	10/100Mbit	10/100Mbit	10/100Mbit
Web Server & FTP Server	YES	YES	YES	YES
Video Input	HE-VIM400 - Video Backpack with support for four (4) NTSC/PAL Video Inputs			HE-VIM401

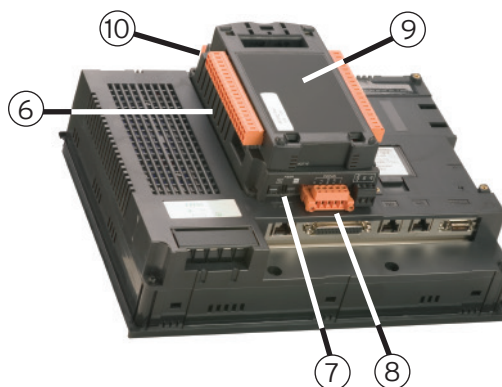|	HE-BP41	HE-BP43
SmartStack I/O Support	2 Modules**	2 Modules**
CsCAN Network Support	YES	YES
SmartStix I/O Support	YES	YES
FOX Fiber Optic I/O Support	YES	YES
I MHz HSC and PWM Support	NO	YES

* Total Ladder scan is impacted by several factors – logic, I/O, screen, and communications updates.
**If SmartStack I/O modules will be snapped on a QX Backpack, order plastic SmartStack I/O modules.

QX without Backpack

1	Ethernet Port
2	Serial Port 3 (25 pin)
3	Serial Port 2 (RJ-45)
4	Serial Port 1 (RJ-45)
5	CompactFLASH Slot

QX with Backpack

6	Backpack Unit
7	FOX Fiber Optic I/O Expansion
8	CsCAN Network Port
9	SmartStack Snap-on I/O
10	HSC and PWM Inputs/Outputs

HORNER
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