

CX-3200

Touch Screen Controller



Revision 1.0 Overview

Features:

- Scalable to Large Screen Sizes, up to 32" diagonal
- Multi-Touch Input, 10-point simultaneous
- Rapid Touch Response, 16 ms standard
- Designed for Thick Panel Construction, Up to 6 mm Glass
- Compatible with Glass and Film Sensors, ITO and Mesh
- Tunable Firmware Configurations, EMI Reduction and LCD Clipping
- Interface Options, USB/I2C/Serial
- No Drivers or Calibration Required

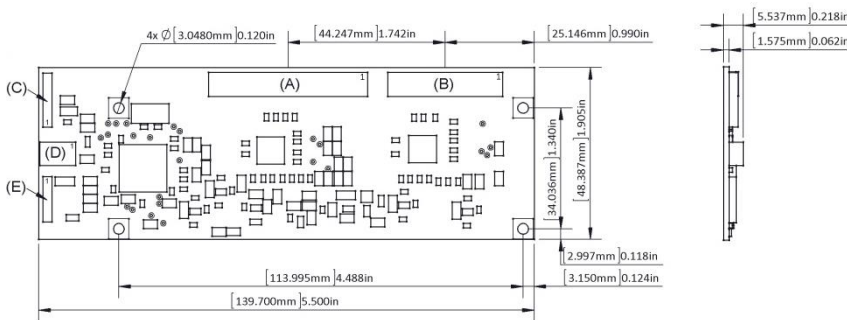
The Clarus Vision CX-3200 controller is currently the largest screen-size controller in the CV-Series and is scalable to touch screen sizes up to 32 inches diagonal. The CX-3200 controller allows for flawless multi-touch function with up to 10-points simultaneous input and a fast scan rate. The sensitivity of the CX-3200 controller supports applications for large screen sizes, rugged (thick) touch panel designs, and environments that are typically noisy (EMI). The CX-3200 controller can be performance tuned for specific application requirements or custom screen sizes. The reliability of the CX-3200 controller is ideal for extended use or always-on operations. The CX-3200 controller raises the industry benchmark in performance and quality design for projected capacitive touch controller systems.

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CX-3200 Touch Screen Controller Specification

Mechanical

Screen Size	15" – 32" (diagonal inch)
Panel Type	ITO or Metal Mesh Type Sensors, Up to 6 mm panel thickness (Glass/ Film)
Construction	Rigid FR4 PCB
Dimensions	139.70 mm x 48.39 mm x 5.54 mm *Note: COF controller type not shown due to design flexibility.
Connectors	(A) Flexible Tail Connector (80-pin, 0.5 mm pitch, double-sided contact), (B) Flexible Tail Connector (55-pin, 0.5 mm pitch, double-sided contact), (C) I ² C Header Pinouts, (D) USB-Mini Connector, (E) USB Header Pinouts



Electrical

Technology	Projected Capacitive Multi-Touch, up to 10-points (simultaneous)
Input Method	Finger, Glove, Passive Stylus
Linear Accuracy	< ± 1.0% (x/y direction)
Touch Resolution	4096 x 4096 (size independent)
Response Time	16 ms (standard), 8 ms (maximum)
Scan Rate	125 Hz, 150 Hz maximum (single touch)
Operating Current	225mA (with active touch), 20mA (idle state)
Power	+5V DC Input, Internal +10V DC
Communication	USB 2.0, I ² C 400Hz, USB-HID (Windows 7/8) 12-bit data transfer
EMI	*Current design not tested, but can be tuned to pass standard compliance testing.
Software	No touch calibration required. No software drivers required. (USB-HID) EMI and noise filtering through firmware. Custom drivers and protocol development available.

Environmental

Temperature	Operating: -25 °C – 70 °C Storage: -40 °C – 85 °C
Humidity	Operating: No condensing at 90% RH at 60 °C Storage: Non-condensing at 90% RH at 25 °C
ESD	*Current design not tested, but can be tuned to pass standard compliance testing.

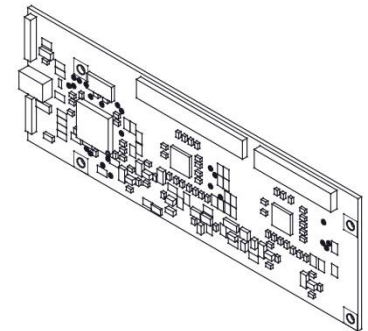
Reliability

Touch Lifetime	More than 1 million touches.
Warranty	Standard 1 year limited warranty, optional extended warranty.

Projected Capacitive Touch System CV-SERIES

CX-3200

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