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AccuTouch COACH III Chip Controller

The COACH III (Controller On A Chip, third generation) (Part # E505794, RoHS Compliant) is a compact universal resistive touchscreen controller chip solution. It supports both serial and USB communication interfaces and is capable of interfacing to either AccuTouch five-wire resistive touchscreens. Regardless of the configuration, operation is automatically detected on power up and needs no user intervention. The COACH III fully supports the Elo SmartSet protocol and all program drivers, both serial and USB.

Features

- Single chip ASIC design for compact integration
- Supports both USB and RS232 interfaces with autodetection
- Serial Interface:
 - bidirectional communication as a DCE
 - 9,600 and 19,200 baud rates supported
 - Frame configuration 8 data, 1 stop, No Parity, Full Duplex
 - Software or hardware handshaking supported: XON/XOFF; DSR, DTR, RTS, CTS
- USB Interface:
 - Full speed USB device
 - Self-powered
- Supports both Five and Four wire touchscreens with autodetection
- Resolution: 4096x4096, size independent
- Conversion time approximately 10 ms per coordinate set
- Improved measurement algorithm eliminates the need for touch filter adjustments
- Full AccuTouch SmartSet protocol.
- Multiple output formats: Binary or ASCII
- E261-280, E271-140, E281A-4002 compatibility modes
- On-board calibration, coordinate scaling, and programmable output rates allow for application-specific performance tuning
- Configuration parameters including serial number are storable in off-chip NVRAM (EEPROM)
- Power requirements: 5 VDC, nominal (4.00 min, 5.25 max); 30 mA, typical
- 64-pin LQFP package (12 mm x 12 mm x 1.6 mm)
- Temperature:
 - Operating: -20°C to +85°C
 - Storage: -40°C to +125°C
- ESD rating (human body model): 2.0 kV
- Look up [product statement of compliance](#) by part number

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- [Differences between COACH III and COACH IV](#) (115K PDF)

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