


EX II Series



Capacitive Touch System Electronics

Product Highlights

- State-of-the-art accuracy and touch response
- Standard-setting ESD and EMI protection
- Firmware download capability provides flexibility
- Wide operating temperature
- High touch coordinate resolution of 16k x 16k*
- RS232 Serial and USB compliant interfaces

* The maximum number of addressable coordinates generated by the controller

A World-Class Electronics Solution

The MicroTouch™ EX II Series Controllers bring flexibility and feature-rich functionality to capacitive touch screen applications. This high performance electronics platform is based on the innovative MicroTouch™ EX II ASIC, designed to provide high resolution, on-chip RAM, and a wide operating temperature range. With expanded regulatory approvals, improved power modes, and enhanced ESD and EMI protection, this controller series is a robust solution for popular touch applications.

Advanced Firmware Download Capability

Culminating decades of touch technology experience, the EX II Series electronics enables advanced firmware download capabilities, optimized for MicroTouch™ ClearTek™ II and legacy ClearTek™ touch screens. Standard factory-loaded firmware can be easily updated or replaced at some future date with downloadable, newer firmware revisions to match updated software application functionality. This field upgrade capability can mean minimal downtime for software upgrades.

EX II Series Capacitive Touch System Electronics

	EX II ASIC Chipset	Serial EX II 7700SC	USB EX II 7700UC
Part Numbers	EXII-ASIC-C	EXII-7720SC (Uncased, no cable)	EXII-7710UC (uncased, no cable)
Communications Protocol	Serial RS-232 / USB Rev 1.1	Serial RS-232	USB Rev 1.1
Additional Requirements	N/A	7310101 RS-232, 96" (2.4 m) Cable, Pearl 7310107 RS-232, 26" (0.7 m) Cable, Pearl	7312256 96" (2.4 m) Cable, Pearl
Nominal Uncased Dimensions	N/A	1.30" x 2.55" x 0.45" 33.0 x 65.0 x 11.4 mm	1.30" x 2.55" x 0.45" 33.0 x 65.0 x 11.4 mm
Nominal Cased Dimensions	N/A	N/A	N/A
Touch Screen Connection	N/A	5-pin locking AMP	5-pin locking AMP
Mean Time Between Failure (MTBF)	> 700,000 hours	> 700,000 hours	> 760,000 hours
Electro-Static Discharge (ESD)	Based on design	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air
Relative Humidity	0 to 95% non-condensing at +36°C	0 to 95% non-condensing at +36°C	0 to 95% non-condensing at +36°C
Storage Temperature	-50° to +85° C	-50° to +85° C	-50° to +85° C
Operating Temperature	-40° to +70° C	-40° to +70° C	-40° to +70° C
Power Requirements (Typical)	Based on design	5-12Vdc ± 5% 85 mA	5Vdc ± 5% 105 mA
Power Connection	Based on design	5V through 2-pin connector on board	USB bus
Regulatory	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548, RoHS	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548, RoHS	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548, RoHS
Drivers	MT 7 (Win 2000, XP, XPe, CE.net 4.0/5.0, Linux TouchWare (Win 95, 98, NT)	MT 7 (Win 2000, XP, XPe, CE.net 4.0/5.0, Linux TouchWare (Win 95, 98, NT)	MT 7 (Win 2000, XP, XPe, CE.net 4.0/5.0, Linux TouchWare (Win 95, 98, NT)
Warranty	1 Year	5 Years	5 Years

EX II Series Capacitive Touch System Electronics

	Serial EX II 1700SC	USB EX II 5700UC	TouchPen System
Part Numbers	EXII-1710SC (Pearl Case, 96" cable) EXII-1715SC (Pearl Case, 26" cable) EXII-1750SC (Uncased, no cable)	EXII-5710UC (Pearl Case, 96" cable) EXII-5750UC (Uncased, no cable)	EXII-3710SP (uncased, no cable)
Communications Protocol	Serial RS-232	USB Rev 1.1	Serial RS-232
Additional Requirements	N/A	N/A	69-502 (stylus) 7311240 (stylus cable) 7311273 (RS232 cable) 69-900 Accessory kit, with above 69-901 Accessory kit, with above and Profile adaptor cable
Nominal Uncased Dimensions	3.50" x 2.30" x 0.45" 88.9 x 58.4 x 11.4 mm	3.50" x 2.30" x 0.45" 88.9 x 58.4 x 11.4 mm	4.80" X 1.35" x .32" 121.9 x 34.3 x 8.2 mm
Nominal Cased Dimensions	3.75" x 2.5" x 0.9" 95.3 x 63.5 x 22.9 mm	3.75" x 2.5" x 0.9" 95.3 x 63.5 x 22.9 mm	N/A
Touch Screen Connection	12-pin NOVRAM	12-pin NOVRAM	6-pin Molex
Mean Time Between Failure (MTBF)	> 740,000 hours	> 500,000 hours	> 600,000 hours
Electro-Static Discharge (ESD)	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air
Relative Humidity	0 to 95% non-condensing at +36°C	0 to 95% non-condensing at +36°C	0 to 95% non-condensing at +36°C
Storage Temperature	-50° to +85° C	-50° to +85° C	-50° to +85° C
Operating Temperature	-40° to +70° C	-40° to +70° C	-40° to +70° C
Power Requirements (Typical)	12Vdc ± 10% 85 mA Typical 5Vdc ± 5% 85 mA	12Vdc ± 10% 110 mA Typical 5Vdc ± 5% 105 mA	12Vdc ± 5% 100 mA
Power Connection	12V through orange wire on NOVRAM connector or 5V through RS-232 cable	USB bus or 12V through orange wire on NovRam	12V through RS232 cable
Regulatory	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548, RoHS	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548, RoHS	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548, RoHS
Drivers	MT 7 (Win 2000, XP, XPe, CE.net 4.0/5.0, Linux TouchWare (Win 95, 98, NT)	MT 7 (Win 2000, XP, XPe, CE.net 4.0/5.0, Linux TouchWare (Win 95, 98, NT)	MT 7 (Win 2000, XP, XPe, CE.net 4.0/5.0, Linux TouchWare (Win 95, 98, NT)
Warranty	5 Years	5 Years	5 Years



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