

# EX II Series Capacitive Touch System Electronics

	USB EX II 7700UC	USB EX II 7700HC	Serial EX II 7700SC
<b>Part Numbers</b>	EXII-7760UC	EXII-7730HC	EXII-7720SC
<b>Communications Protocol</b>	USB Rev 1.1	HID (Mouse)	Serial RS-232
<b>Optional Components</b>	7312256 96" (2.4 m) Cable, Pearl 7315050 23" (0.58m) Cable, Pearl	7312256 96" (2.4 m) Cable, Pearl 7315050 23" (0.58m) Cable, Pearl	7310101 96" (2.4 m) Cable, Pearl 7310107 26" (0.7 m) Cable, Pearl
<b>Dimensions</b>	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	1.30" x 2.55" x 0.45" 33.0 x 65.0 x 11.4 mm
<b>Power Connection</b>	USB bus	USB bus	5V through 2-pin connector on board
<b>Touch Screen Connection</b>	5-pin locking AMP	5-pin locking AMP	5-pin locking AMP
<b>Mean Time Between Failure (MTBF)</b>	> 700,000 hours	> 700,000 hours	> 700,000 hours
<b>Electrostatic Discharge (ESD)</b>	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air
<b>Relative Humidity</b>	0 to 95% non-condensing at +36°C	0 to 95% non-condensing at +36°C	0 to 95% non-condensing at +36°C
<b>Storage Temperature</b>	-50° to +85° C	-50° to +85° C	-50° to +85° C
<b>Operating Temperature</b>	-40° to +70° C	-40° to +70° C	-40° to +70° C
<b>Power Requirements (Typical)</b>	5Vdc ± 5% 75 mA	5Vdc ± 5% 75 mA	5-12Vdc ± 5% 85 mA
<b>Regulatory</b>	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
<b>Driver Support</b>	MT 7 (Win Vista, 2000, XP, XPe, WEPOS, CE.net 4.0/5.0, Linux) TouchWare (Win 95, 98, NT)	MSFT HID (Mouse) Optional: MT 7 (Win Vista, 2000, XP, XPe, WEPOS, CE.net 4.0/5.0)	MT 7 (Win Vista, 2000, XP, XPe, WEPOS, CE.net 4.0/5.0, Linux) TouchWare (Win 95, 98, NT)
<b>Warranty</b>	5 Years	5 Years	5 Years



# EX II Series Capacitive Touch System Electronics

	TouchPen System	EX II ASIC Chipset
<b>Part Numbers</b>	EXII-3710SP	EXII-ASIC-C
<b>Communications Protocol</b>	Serial RS-232	Serial RS-232 / USB Rev 1.1
<b>Optional Components</b>	69-901 TouchPen Kit (includes stylus, stylus cable, RS232 cable) 69-502 (stylus) 7311240 (stylus cable) 7311273 (RS232 cable)	N/A
<b>Dimensions</b>	4.80" X 1.35" x .32" 121.9 x 34.3 x 8.2 mm	N/A
<b>Power Connection</b>	12V through RS232 cable	Based on design
<b>Touch Screen Connection</b>	6-pin Molex	5-pin locking AMP
<b>Mean Time Between Failure (MTBF)</b>	> 600,000 hours	> 700,000 hours
<b>Electrostatic Discharge (ESD)</b>	± 8KV Contact, ± 27KV Air	Based on design
<b>Relative Humidity</b>	0 to 95% non-condensing at +36°C	0 to 95% non-condensing at +36°C
<b>Storage Temperature</b>	-50° to +85° C	-50° to +85° C
<b>Operating Temperature</b>	-40° to +70° C	-40° to +70° C
<b>Power Requirements (Typical)</b>	12Vdc ± 5% 100 mA	Based on design
<b>Regulatory</b>	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548, RoHS	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548, RoHS
<b>Driver Support</b>	MT 7 (Win Vista, 2000, XP, XPe, WEPOS, CE.net 4.0/5.0, Linux) TouchWare (Win 95, 98, NT)	MT 7 (Win Vista, 2000, XP, XPe, WEPOS, CE.net 4.0/5.0, Linux) TouchWare (Win 95, 98, NT)
<b>Warranty</b>	5 Years	1 Year



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**RoHS Directive compliant:** In accordance with European Directive 2002/95/EC, "RoHS Directive compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based on information provided by third party suppliers to 3M. (9/06)

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