MicroTouch 3M

ClearTek™ and ToughTouch

TouchPen

Resistive 5-Wire (Current Driven)

Images not to scale

	Serial EX II 1000SC	USB EX II 5000UC	Serial EX II 7000SC	USB EX II 7000UC	Serial EX II 3000SP	Serial EX II-8020SR	USB EX II-8010UR
Part Number	EXII-1010SC (Pearl Case, 96" cable) EXII-1015SC (Pearl Case, 26" cable) EXII-1030SC (Black Case, 96" cable) EXII-1050SC (Uncased, no cable)	EXII-5010UC (Pearl Case, 96" cable) EXII-5030UC (Black Case, 96" cable) EXII-5050UC (Uncased, no cable)	EXII-7020SC (Uncased, no cable)	EXII-7010UC (uncased, no cable)	EXII-3010SP	EXII-8020SR	EXII-8010UR
Communications Protocol	Serial RS-232	USB Rev 1.1	Serial RS-232	USB Rev 1.1	Serial RS-232	Serial RS-232	USB Rev 1.1
Additional Requirements (For uncased only)	N/A	N/A	7310101 RS-232, 96" (2.4 m) Cable, Pearl 7310107 RS-232, 26" (0.7 m) Cable, Pearl 7312170 RS-232, 96" (2.4 m) Cable, Black	7312256 96" (2.4 m) Cable, Pearl	69-502 (Stylus) 7311240 (Stylus Cable) 7311273 (RS232 Cable) 69-900 Accessory Kit, with all of above. 69-901 Accessory Kit, with all if above and Profile Adaptor Cable.	7310101 96" (2.4 m) Cable, Pearl, 7-pin connector	7312256 96" (2.4 m) Cable, Pearl, 5-pin connector
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	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	4.80" X 1.35" x .32" 121.9 x 34.3 x 8.2 mm	1.3" x 2.55" x 0.42" 30.0 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	3.75" x 2.50" x 0.90" 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	N/A	N/A	N/A	N/A
Touch Screen Connection	12-pin NOVRAM	12-pin NOVRAM	5-pin locking AMP	5-pin locking AMP	6-pin Molex	5-pin locking AMP	5-pin locking AMP
MTBF	> 740,000 hours	500,000 hours	> 700,000 hours	> 760,000 hours	> 600,000 hours	700,000 hours	500,000 hours
ESD	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air	± 8KV Contact, ± 27KV Air
Relative Humidity	0 to 95% non-condensing at +36ºC	0 to 95% non-condensing at +36ºC	0 to 95% non-condensing at +36ºC	0 to 95% non-condensing at +36ºC	0 to 95% non-condensing at +36ºC	0 to 95% non-condensing at +36ºC	0 to 95% non-condensing at +36ºC
Storage Temperature	-50º to +85º C	-50º to +85º C	-50º to +85º C	-50º to +85º C	-50º to +85º C	-50º to +85º C	-50º to +85º C
Operating Temperature	-40º to +70º C	-40º to +70º C	-40º to +70º C	-40º to +70º C	-40º to +70º C	-40º to +70º C	-40º to +70º C
Power Requirements (Typical)	12Vdc ± 10% 85 mA Typical 5Vdc ± 5% 85 mA	12Vdc ± 10% 110 mA Typical 5Vdc ± 5% 105 mA	5-12Vdc ± 5% 85 mA	5Vdc ± 5% 105 mA	12Vdc ± 5% 100 mA	5Vdc ± 5% 95 mA	5Vdc ± 5% 95 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	5V through 2-pin connector on board	USB bus	12V through RS232 Cable	5V through 2-pin connector on board	USB Bus
Regulatory	UL/cUL, FCC-B, CE, VCCI, AS/NZS, 3548	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548	UL/cUL, FCC-B, CE, VCCI, AS/NZS 3548
Drivers	TouchWare (19-640) (Win 95, 98, 2000, NT, XP; Linux)	TouchWare (19-640) (Win 95, 98, 2000, NT, XP; Linux)	TouchWare (19-640) (Win 95, 98, 2000, NT, XP; Linux)	TouchWare (19-640) (Win 95, 98, 2000, NT, XP; Linux)	TouchWare (19-640) (Win 95, 98, 2000, NT, XP; Linux)	TW5.6sr4 and later (Win 98, 2000,NX, XP, CE, Linux)	TW5.6sr4 and later (Win 98, 2000,NX, XP, CE, Linux)
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years