


# 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\*
- USB, HID, RS232-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

	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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- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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