



XAC Automation Corporation

SAIO Transaction Terminal Platform

Secure; Reliable; Cost Effective Solution for
transaction Terminals (Web based/Thin Client)

XAC's Super All In One (SAIO) Embedded OS Platform is designed To meet the requirements of Next generation Transaction Processing system, Features are:

1. Embedded OS (CE 4.2, 6.0 or EL) + ARM 9 Processor.(32bits)
2. Secure PPL for Program & Parameter Remotely download.
3. Support Multiple Applications(Web based or Thin client based)
4. AP development support: SDK/JVM/CF/
5. Built in all the I/O peripherals for transactions.
6. Certifications: PTS/PCI/EMV/Paypass....





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The Transaction Peripherals Controller (TPC) ASIC is at the core of SAIO's architecture. It provides a cost-effective way to support printers, readers (i.e., MSR, EMV, RFID), and Other interfaces for future expansion.

SPPL (Secure Program and Parameters loading) utility certified by **Mastercard PTS** Standard is to provide remote download and management capability of the AP & Data inside the terminals.

With **Global Regulatory Compliance** Design, SAIO platform can be configured Into Products which meet the specific Applications requirement very quickly

The SAIO architecture is **PCI** compliance and Helps to achieve Payment Application Best Practices (**PABP**)

Transaction terminals can be derived from this platform include the following Devices:

- Payment terminals
- Web Based terminals.
- POS Terminals
- PIN pad
- Signature Capture device
- Price checker
- Kiosk
- Betting Terminal

About XAC Automation Corp.

Founded in 1993, XAC (TAIWAN NASDAQ 5490) is a leading R&D/Manufacturing company focused on transaction automation devices. XAC develops key component modules and low-cost secure platform architectures that can be leveraged to design customized solutions for its customers/partners. Today, XAC's technology can be found in: Cost Effective POS terminals, high-end countertop payment devices, Electronic Cash Registers (ECRs), wireless "pay-at-the-table" devices, multi-lane consumer activated terminals, outdoor payment terminals, PIN pads, Smartcard peripherals, RFID readers, gaming machines, cashless ATMs, kiosks, and countless other solutions. With a flexible and efficient manufacturing infrastructure, "in-house" key components, modules, and technical design expertise, XAC delivers low-cost, high-quality solutions to customers in a timely manner. For more information about XAC, please visit <http://www.xac.com.tw>.

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Technical Specification

- **Operating System:** WinCE 4.2 and 6.0 & Linux
- **Audio:** Stereo Codec MP3 and WAV file format
- **Memory** :Build-in memory (UP to 64 MB Flash ; Up to 128 MB SDRAM)
- **Display:** Supports 2 x 20 character mode LCM; 128 x 64 graphic LCM; QVGA LCM Up to VGA (640 x 480 resolution); 5.6" TFT LCD Landscape with 960 x 234 resolution;10.4" TFT LCD with 640 x 480 resolution
- **Touch Panel:** 5W & 4W resistive touch sensor
- **Security:**
 - Algorithm: DES, TDES, RSA,
 - Key Management: MK/SK, DUKPT
 - supported Secure Program and Parameter Loading (PPL) function
- **MSR** : (Optional) 3 Tracks MSR compliant to ISO 7811. Over 500,000 swipe pass
- **SCR** :(Optional) Support ISO7816-1/2/3 compliant Asynchronous Cards protocol T=0, T=1, and Memory Card Contactless Reader:(Optional) ISO 14443 Type A/B
 - VISA PayWave, VCPS
 - PayPass (M/Chip)
 - ExpressPay
 - Discover RF Network
 - Mifare
 - Felica
- **Certification:**
 - EMV L1/L2 certification (optional)
 - PBOC 2.0 L1/L2 certification (optional)
 - MasterCard PTS certification
 - Paywave, VCPS, PayPass, Expresspay..etc
- **Interface: (maximum supported)**
RS232x4; Ethernetx1;Modemx2;
USB hostx4; USB (host/device)x1
- **Wireless Modem:**
 - Radio Modem(GSM/GPRS/CDMA)
 - Bluetooth and Wi-Fi module (802.11 g)
- **Thermal Printer**
72 mm print width or 48 mm print width
- **Power:**
19V@3.42A (65W) switching power supply
- **Environmental:**
Operating temperature: 0°C to 50°C
Storage temperature: -20°C to 60°C
- **SDK:** Available