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Building Forward Together | ADLINK

Optimum Flexibility, Future-Proof Design

Smart Touchscreen Computers

Multiple CPU architecture support on one uniform platform
Rugged design with multiple touch options
Flexible I/O expansion for specific requirements



ADLINK

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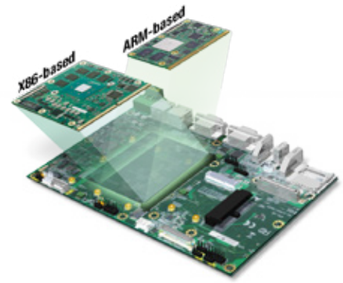
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Smart Touchscreen Computers

Optimum flexibility, future-proof design

Integrating the latest technology in industrial computing is always a challenge for improved performance and profitability. A common decision point when specifying automation platforms is whether to use standard industrial platforms or complete custom units. ADLINK's Smart Touch Computer (STC) lets engineers and system integrators enjoy the benefits of both standard and custom platforms in a future-proof design. STCs are designed using the Smart Mobility Architecture (SMARC) computer-on-module concept to offer maximum efficiency and flexibility during design and development. Available with 10.4", 12.1" and 15" touchscreen displays, STCs feature a rugged design to meet the demanding requirements of a wide range of automation applications.





Multiple CPU architecture support on one uniform platform

Traditional automation systems either use standard industrial PCs or completely custom control hardware. ADLINK's STC series leverages the SMARC computer-on-module concept to provide users a range of solutions with proven performance and the flexibility to tailor their system to meet specific requirements. STCs are available with multiple CPU types, including ARM-based (STC-1006/1206/1506) and x86-based (STC-1005/1205/1505) platforms, allowing users to choose the performance level and operating system that fits the needs of their applications.

Rugged design with multiple touch options

The ADLINK STC's thin, compact aluminum enclosure is not only attractive but provides a front bezel with IP65-rated protection for reliability in tough working environments. STCs are available with either projected capacitive or 5-wire resistive multiple touchscreen options for easy operation (multiple touch options for STC-1005/1205/1505 models only)





Flexible I/O expansion tailors system functions to meet your requirements

ADLINK STCs are equipped with essential I/O including serial, Gigabit Ethernet, USB and HDMI. Also featured is a proprietary expansion slot for extended I/O customization such as additional serial ports, PCIe and GPIO to meet specific application needs

Applications

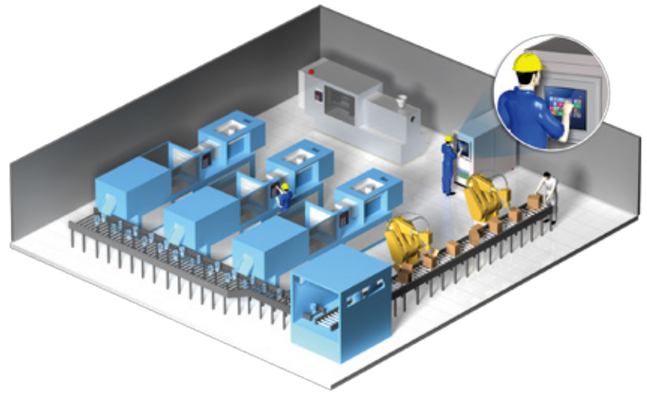
Factory Automation Process and Control Monitoring System

Introduction

Factory automation process control systems are mainly employed in manufacturing operations that convert highly variable raw materials into finished goods with consistent quality. Process manufacturers require a high degree of automation, monitoring and advanced controls to make sure all processes run smoothly. A rugged, reliable and easy-to-use panel computer able to withstand harsh factory environments is needed on the shopfloor to allow manufacturing operators to properly monitor each process step and properly control all the process parameters in a clear and efficient manner.

Adlink solution

ADLINK's Smart Touch Computers are ideal terminals for use in factory automation process monitoring and control. STCs feature an IP65-rated front panel design to withstand the dust and spray caused by the production process, as well as a wide operating temperature range of -0 °C to 60 °C to ensure the stability and reliability. For connection to shopfloor devices and equipments, STCs are equipped with one mPCIe slot and one proprietary expansion slot for additional PCIe extension to PLC or other control and monitoring field devices. With the STC connected to control system, manufacturing operators can check and change parameters for different field devices to control and optimize the production process from one convenient location.



Why STC?

- 5-wire resistive or projected capacitive touch with IP65-rated front bezel for water and dust protection
- Multiple OS support (Windows & Linux) provides flexibility for implementing factory automation software
- Mini PCIe expansion slot for easy system expansion to connect to field devices
- Wider temperature support (0 °C to 60 °C) for reliable operation

STC-1005/1205/1505

10.4", 12.1" and 15" panel computers



- Intel® Atom ™ Processor E3845
- 10.4"/12.1"/15" 4:3 TFT-LCD display with 1024 x 768 resolution
- 5-wire resistive or projected capacitive touch with IP65-rated front bezel for water and dust protection
- USB 3.0/2.0, GbE, serial port and HDMI output
- Flexible I/O expansion with ADLINK proprietary slot for extended I/O board
- Built-in Wi-Fi, Bluetooth and webcam function

STC 1006/1206/1506

10.4", 12.1" and 15" panel computers



- Freescale i.MX6 Dual ARM® Cortex® A9 Core SoC
- 10.4/12.1/15 4:3 TFT-LCD display with 1024 x 768 resolution
- Durable projected capacitive touch sensor
- IP65-rated front bezel for water and dust protection
- USB 2.0, GbE, serial port and HDMI output
- Flexible I/O expansion with ADLINK proprietary slot for extended I/O board

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