

STC-AL Series

Smart Touch Computers

Features

- Quad-core Intel Atom® x7-E3950 Processor
- 10.1"/12.1"/15.6" wide ratio TFT-LCD display with up to 1366 x 768 resolution
- 5-wire resistive touch sensor and optional 5-point projected capacitive sensor
- IP65-rated front bezel to deter water and dust ingress
- Robustness with wide 9~36V DC input and optional -20°C~60°C support
- Ease of installation with panel and optional VESA mount
- SEMA support and custom I/O and function expansion



Introduction

The STC-AL Series is based on quad-core Intel Atom® X7-E3950 processors and provides projected capacitive (PCAP) or 5-wire resistive touch interfaces in 10-, 12- and 15-inch display sizes. Support for fieldbus communication, wireless connectivity, and other functions is provided by Mini PCIe expansion, to interface with industrial networks, automated systems, machine controllers, and auxiliary equipment. In addition to default I/O connections, the STC-AL delivers flexible I/O customization to fulfill a wide range of application-specific functionality. The exceptionally robust system features IP65-rated moisture and particulate protection on the front side and operating temperature compatibility up to -20°C to 60°C. Versatile power input capability ranges from 9V to 36V. Remote management of STC provided by ADLINK's SEMA (Smart Embedded Management Agent) utility for maximized system uptime.

Software Support

- Windows® 10 IoT Enterprise

Ordering Information

- **STC-10WP-E3950**
10.1" Smart Touch Computer, PCAP, 4GB RAM, 64GB M.2 SSD
- **STC-10WR-E3950**
10.1" Smart Touch Computer, Resistive, 4GB RAM, 64GB M.2 SSD
- **STC-12WP-E3950**
12.1" Smart Touch Computer, PCAP, 4GB RAM, 64GB M.2 SSD
- **STC-12WR-E3950**
12.1" Smart Touch Computer, Resistive, 4GB RAM, 64GB M.2 SSD
- **STC-15WP-E3950**
15.6" Smart Touch Computer, PCAP, 4GB RAM, 64GB M.2 SSD
- **STC-15WR-E3950**
15.6" Smart Touch Computer, Resistive, 4GB RAM, 64GB M.2 SSD

Optional Accessories

- **Adapter**
12V 60W power adapter
- **VESA Mounting Kit**
VESA 100 x 100 mounting kit
- **Wi-Fi Kit**
IEEE 802.11 a/b/g/n/ac
- **4G/LTE Kits**
For USA/EU/AP markets

Specifications

| Model | STC-10W-AL | STC-12W-AL | STC-15W-AL |
|--|---|--|---|
| |  |  |  |
| System | | | |
| Processor | Intel Atom® x7-E3950 Processor | | |
| Main Memory | 4GB DDR3L default (up to 8GB) | | |
| Storage | 1 x M.2 slot (M Key) | 1 x 2.5" SATA bay 1 x M.2 slot (M Key) | |
| Display Component Specification | | | |
| Display Size | 10.1" | 12.1" | 15.6" |
| Contrast Ratio | 1300:1 | 1000:1 | 500:1 |
| Display Resolution | 1280 x 800 | 1280 x 800 | 1366 x 768 |
| Display View Angle | 85/85/85/85 | 89/89/89/89 | 85/85/80/80 |
| Luminance (Nits) | 400 nits (w/o touch) | | |
| Backlight MTBF (Hrs) | 50000 | | |
| Touch Screen | 5-wire resistive touch sensor / Projective capacitive sensor | | |
| Motherboard and System Components | | | |
| I/O Port | 1 x USB 2.0, Type A 1 x USB 3.0 2 x GbE LAN, RJ45 2 x COM ports, RS232/422/485 1 x DP port 1 x DC Power input 1 x Audio port (line out) | | |
| Expansion | 1 x PCIe mini card with PCIe and USB interface | | |
| Wi-Fi and Bluetooth | 802.11 a/b/g/n/ac and BT 4.0 (optional with PCIe mini card) | | |
| Operating System | Windows® 10 IoT Enterprise, Android | | |
| Physical Characteristics | | | |
| Construction | Aluminum front bezel and metal chassis | | |
| Weight | 2.9kg | 4.2kg | 5.9kg |
| Dimensions (HxWxD) (mm) | 283 x 202 x 53 | 328 x 230 x 55 | 415 x 264 x 55 |
| Mounting Options | VESA Mount, MIS-D 100mm (option) Panel Mount | | |
| Working Environment | | | |
| Operating Temperature | -20°C to 50°C | -20°C to 50°C -20°C to 60°C (optional) | 0°C to 50°C |
| Storage Temperature | -20°C to 60°C | -20°C to 60°C | -20°C to 60°C |
| Operating Humidity | 10% to 90% @ 40°C (non-condensing) | | |
| Vibration | 1G random 5 to 500Hz | | |
| Shock | 10G acceleration part to part, 11ms | | |
| IP Grade | IP65 on the front | | |
| Certifications & Compliance | CE, FCC, Class A, CB, UL | | |
| Power | | | |
| Input Voltage | 9~36V DC Power input | | |
| Power Consumption | 29W | 32W | 34W |