

# Rugged Completely Sealed IP66/NEMA4X Stainless Steel Chassis/Surface Mount PANEL PC

Rugged Completely Sealed Full IP66/NEMA4X Stainless Steel Chassis/Surface Mount, 19" LCD monitor , 1280 x 1024, 1000 nits, with Glass, with Intel Atom D2550 processor, 1.6GHz, Memory 4GB, 64 GB SSD, Windows 7 embedded ,Water proof cable: VGA + DVI + RS232 + USB \*2 + POWER, with PCT projective capacitive touch (true flat screen design )

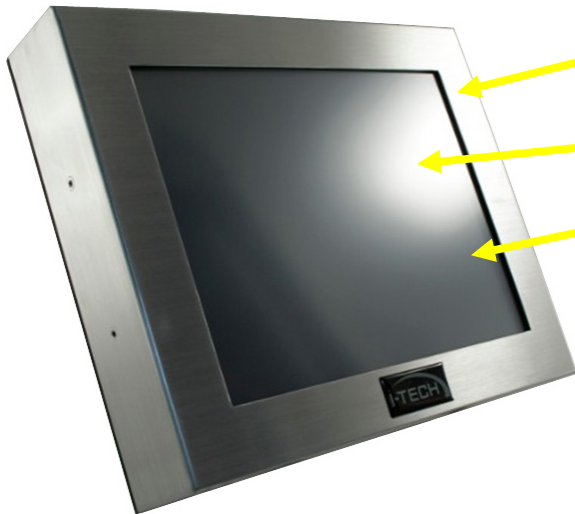


**1000 nits**

Model: SCH1900HB-SIP-PC-PCT

## Features Highlights

Rugged Completely Sealed IP66/NEMA4X Stainless Steel Chassis/Surface Mount with All-in-One PC Fanless Solution



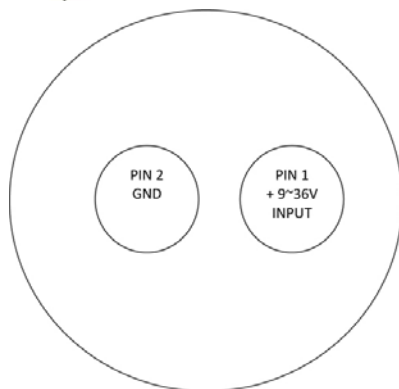
Water Proof Solution, Full IP/NEMA4 Rating  
front and back  
Stainless and Aluminum Housing Chassis Design

Optional High Brightness and Touch screen

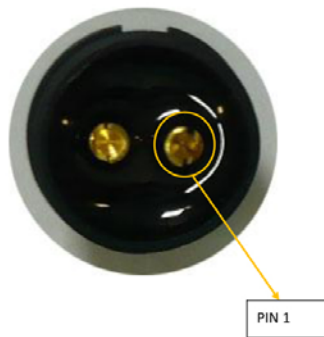
Glass Protective Glass at front



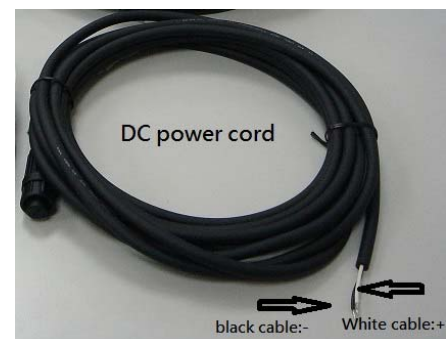
- IP65 Water and Dust proof connection for a higher protection
- All Connectors are facing back with IP66 water proof connectors
- Optional DC 9-36V input



IP67 Connector (DC)



PIN 1



DC power cord

black cable:- White cable:+

## PC Features

- Intel® Atom D2550 Processor and NM10 onboard
- Selectable 12V/5V/RI with 1Amp driving current for COM ports
- Support LED display
- One DDR3 SO-DIMM support up to 4GB DDR3 1066MHz SDRAM
- Support dual display for VGA and LVDS
- Support cash drawer port
- One Mini-PCIe
- Onboard 8-bit Digital I/O, 4 bits of wide range input and 4 bits of buffer output
- All Japan brand of Capacitors
- Optional DC 12V Input and DC 12V Output COM



## PC Specifications

| System Processor/Chipsets |  |
|---------------------------|--|
| Processor                 | Intel® Atom processors D2550/N2800/N2600 BGA |
| Chipset BIOS              | NM10 AMI                                     |
| Memory                    |  |
| Technology Max            | DDR3 1066 MHz SO-DIMM                        |
| <b>Max. Capacity</b>      | Up to 4GB DDR3 SDRAM                         |
| <b>Socket</b>             | 1xDDR3 SO-DIMM                               |
| Display                   |  |
| Chipset                   | Intel D2550 integrated                       |
| VARM                      | Share with system memory                     |
| Resolution                | Analog Display: Up to 2048 x 1536            |
| LVDS                      | 24bit  |
| LVDS Resolution           | Dual Channel Up to 1920x1080                 |
| Dual Display              | CRT+LVDS                                     |
| Ethernet                  |  |
| Interface                 | 10/100/1000 Mbps                             |
| Controller                | LAN: Realtek 8111E                           |
| Audio                     |  |
| Interface                 | High Definition Audio Realtek                |
| Controller                | ALC269 HD CODEC                              |
| SATA                      |  |
| Max. Data Transfer Rate   | 300 MB/s 2                                   |
| Port                      | 2  |
| Expansion Slot            |  |
| mini PCIe                 | 1  |
| Onboard Connector         |  |
| VGA                       | 1  |
| USB 2.0                   | 2  |
| LVDS                      | 18/24 bit                                    |
| DIO                       | 4 in/ 4 out                                  |
| COM                       | 4xRS232, all supply 5V&12V                   |
| SATA Power                | 2  |
| Parallel                  | 1  |
| Mic In                    | 1  |
| Audio                     | 1 (Line In, Line out, Mic In)                |
| Fan                       | 1x CPU FAN, 1xSYSTEM FAN                     |
| MSR                       | 1  |
| SATA                      | 2x SATA Slot                                 |

### Rear I/O

|               |  |
|---------------|--|
| PS/2          | 1  |
| VGA           | 1  |
| COM           | 1xD-SUB9(1xRS232/RS422/RS485) 1xRJ45 (RS232) |
| USB 2.0       | 4  |
| LAN           | 1  |
| Cash Drawer   | 1  |
| DC 12V IN     | 1  |
| DC 12V Output | 1  |
| Parallel      | 1  |
| Line out      | 1  |

### Power

|               |                                    |
|---------------|------------------------------------|
| DC 12V Input  | DC 12V Jack, DC 12V 4Pin connector |
| DC 12V Output | DC 12V Jack                        |

### Watchdog Timer

|          |                         |
|----------|-------------------------|
| Interval | Programmable 1~255 sec. |
| Output   | System reset            |

### Environment

|                   |                          |
|-------------------|--------------------------|
| Operating Temp.   | -5°C~60°C (23°F~140°F)   |
| Storage Temp.     | -20°C~80°C (-68°F~176°F) |
| Relative Humidity | 0%~95% (non-condensing)  |

### Form Factor

|                 |                               |
|-----------------|-------------------------------|
| Dimension (LxW) | 170mm x 170mm (6.69" x 6.69") |
|-----------------|-------------------------------|

### Rear I/O



## Features:

- Modular mechanism design provides flexible product configuration and easy maintenance.
- Stainless Steel Enclosure
- Optional with auto-brightness sensor offers application in day and night.
- Optional to built-in touch screen for interactive application

## Specifications:

|                            |   |  |   |
|----------------------------|---|--|---|
| <b>Panel</b>               | Cell Type / Glass Surface   | TFT LCD / Black Anti-Glare, low reflection coating         |   |
|                            | Aspect Ratio / Size   | 5 : 4 / 19" viewable diagonal area                         |   |
|                            | Active Area / Pixel Pitch   | 376.3(H) x 301.1 (V) mm / 0.294(H) x 0.294(V) mm           |   |
|                            | Native Resolution / Colors  | 1280(H) x 1024(V) / 16.7 Million                           |   |
|                            | Brightness / Contrast   | 1000 cd/m <sup>2</sup> (typ) / 800 :1                      |   |
|                            | Response Time   | ^ 5 ms   |   |
|                            | Viewing Angle (typical)   | H. 160° (- 80° ~ + 80°) , V. 160° (- 80° ~ + 80°)          |   |
|                            | Light Source  | CCFL , Long life, 50,000 hrs (typ)                         |   |
| <b>Input Sources</b>       | PC System   | Signal   | Analog RGB (0.7/1.0 V <sub>p-p</sub> , 75 ohms)         |
|                            |   | Sync   | Separate Sync, Composite Sync, Sync On Green            |
|                            |   | Frequency  | F <sub>H</sub> : 30 - 82Khz , F <sub>V</sub> : 50 -75Hz |
| Audio System               | 2W speaker x 2  |  |   |
| <b>Input Terminals</b>     | 1 x VGA (15 Pin Female D-Sub), 1 x PC Audio (Stereo Headphone Jack), 1 x DC JACK            |  |   |
| <b>Convenient Features</b> | Auto Calibration , Back Light Adjustment, Plug&Play (VESA DDC/CI, DDC 2B)                   |  |   |
|                            | OSD Multi-Languages , Wall Mount Ready (VESA 200 x 200 mm)                                  |  |   |
| <b>Power</b>               | External AC-to-12VDC power adapter with universal / Auto-Sensing, AC 90 to 260V, 50 / 60 Hz |  |   |
| <b>Power Consumption</b>   | Operation / Power Saving  | 32 watt, < 2 watt (Support DPMS)                           |   |
| <b>Operating Condition</b> | Temperature / Humidity  | 0°C ~ 50°C (32°F ~ 122°F), 10% ~ 90% (no condensation)     |   |
| <b>Storage Condition</b>   | Temperature / Humidity  | - 20°C ~ 60°C (- 4°F ~ 140°F), 10% ~ 90% (no condensation) |   |
| <b>Certification</b>       | FCC,CE  |  |   |
| <b>Dimensions</b>          | Physical  | With Base(W x H x D): TBD                                  |   |
|                            |   | Without Base(W x H x D): 500.0 x 429.0 x 72.0 (mm)         |   |
|                            | Carton  | Wx H x D = TBD   |   |
| <b>Weight</b>              | N.W. / G.W.   | 12.0 Kgs/14.0 Kgs  |   |
| <b>Container Loaded</b>    | 20ft / 40ft / 40ft HQ   | 816 /1632 / NA (Sets , By pallet)                          |   |

| Options | Touch            | Video / TV           | Enhanced Panel           | Others                       |
|---------|------------------|----------------------|--------------------------|------------------------------|
|         | Resistive touch  | SV + AV              | Panel with LED backlight | Digital Signage(Stand alone) |
|         | Capacitive touch | SV + AV + AV_Looping | High brightness panel    | Networking Digital Signage   |
|         | SAW touch        | SV + AV + TV         | Wide Temperature         | Motion Sensor                |
|         | Infrared touch   |                      | Sunlight Readable        | Light Sensor                 |
|         | Protected glass  |                      |                          | Auto-Dimming                 |

## Photos (Model: SCH1900HB-SIP-PC)



