



Main Features

- ♦ 15" TFT XGA LCD
- ♦ Remote PC power on/off switch
- ♦ 4 x USB
- ♦ IP65 Certified Front Panel
- ♦ 24V DC-in power design
- ♦ Optional Wireless kit and DVD
- ♦ Flexible PC system selection (NISE 3100SP or NISE 3110SP)

Product Overview

Smart Panel Computer, SPC150, is mainly design for fan-less panel solution especially for noise-free, dust-free and space limitation applications. SPC150 has great flexibility to work with NISE31xx from middle to high performance demand in 3 meter distance. Besides, SPC150's user-friendly design provides front control not only on power on/off control but also for USB device usability. The support for one internal CompactFlash disk also makes system maintenance more convenient. Optional Slot-in DVD Combo is another advantageous in space limited application. SPC150 meets the VESA standard for mounting holes, 75/100, which provide various demand for different kinds of installations. SPC150 with NISE31xx system is designed for reliable, maintenance-free industrial computing which offers a multitude of mission-critical embedded computing applications in POS, Kiosk, Automation HMI, Self-service...etc.

Specifications

System

- ♦ Front Bezel: Aluminum
- ♦ Chassis: Heavy-duty Steel
- ♦ Mounting type: Panel mount/Stand/ARM (VESA holes: 75/100)
- ♦ Dimension: 420mm (W) x 370mm (H) x 44mm (D)
- ♦ Protection Level: IP 65 on Front Panel
- ♦ Support OS: Windows XP, XP embedded, Linux Redhat 9.0

I/O Interface - Front

- ♦ NISE power on/off switch
- ♦ LCD Display power on/off switch
- ♦ Backlight power on/off switch
- ♦ OSD keypad (Auto, Left/-, Right/+, Menu/Enter)
- ♦ 2x USB
- ♦ Optional Wireless Antenna

I/O Interface - Rear

- ♦ 1x DC-in power input
- ♦ 1x VGA connector
- ♦ 1x DVI connector (with Single-Link DVI and USB signal)
- ♦ 1x RS232 Serial port
- ♦ 2x USB ports
- ♦ 1x Mic-in and 1x Speaker-out
- ♦ 1x CF card socket

LCD Display

- ♦ Display size: 15" TFT
- ♦ Resolution: 1024 x 768 max. (XGA)
- ♦ Pixel Pitch: 0.297 x 0.297mm
- ♦ Typical white Luminance: 350 nit (Typ.) @ 5.5mA
- ♦ Contrast Ratio: 700:1 (Typ.)
- ♦ Viewing Angle: 70 (Left), 70 (Right), 65 (Up), 60 (Down) / Typ.
- ♦ Backlight MTBF: 50,000 hrs

Dimension Drawing

- ◆ Type: 5-wire Resistive
- ◆ Light Transmission: 0.8
- ◆ Power Consumption: 5.5V or less
- ◆ Durability (Touches Lifetime): 36 millions

- ♦ 24V DC-in
- ♦ 1x External 100W AC/DC adapter

- ◆ Operating Temperature: 0-45 degree C
- ◆ Storage Temperature: 0-60 degree C
- ◆ Relative Humidity: 10-90% (non-condensing)

- **SPC150 (P/N: 10TSPC15000X0)** RoHS Compliant
15" Smart Panel Computer
- **SPC150T (P/N: 10TSPC15001X0)** RoHS Compliant
15" Smart Panel Computer with Touch
- **NISE3100SP (P/N: 10J00310019X0)** RoHS Compliant
Barebone NISE3100 for SPC PC system, support Intel Pentium M/Celeron M Fan-less Bare-Bone System with 1x PCI expansion slot
- **NISE3110SP (P/N: 10J00311012X0)** RoHS Compliant
Barebone NISE3110 for SPC PC system, support Intel Core 2 Duo, Core Duo, Celeron M Fan-less Bare-Bone System with 1x PCI expansion slot



Main Features

- ♦ 15" TFT XGA LCD
- ♦ Remote PC power on/off switch
- ♦ IP65 Front Panel
- ♦ Wide range processor selection from Celeron-M, Pentium M and Core 2 Duo in NISE 31xx Fan-less system
- ♦ 3 meter operation distance between SPC150 and NISE computer

Product Overview

Smart system is mainly designed for long-distance panel PC with fan-less solution especially for those applications which request high performance without noise or space limitation. Wide range of processor support from Celeron-M to Core 2 Duo, Nexcom Smart System contributes to great flexibility to meet various applications or demands. SPC150 can remotely control NISE fan-less system in three meter distance. SPC150T with touch screen provides more interactive ability to users. This split design eliminates the installation limitation but enjoy high-end performance without fan noise.

Smart system is designed for reliable, maintenance-free industrial computing which offers a multitude of mission-critical embedded computing applications in POS, Kiosk, Automation HMI, Self-service...etc.

SPC 150 Specifications

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- ♦ Chassis: Heavy-duty Steel
- ♦ Mounting type: Panel mount/Stand/ARM (VESA holes: 75/100)
- ♦ Dimension: 420mm (W) x 370mm (H) x 44mm (D)
- ♦ Protection Level: IP 65 on Front Panel
- ♦ Support OS: Windows XP, XP embedded, Linux Redhat 9.0

I/O Interface - Front

- ♦ NISE power on/off switch
- ♦ LCD Display power on/off switch
- ♦ Backlight power on/off switch
- ♦ OSD keypad (Auto, Left/-, Right/+, Menu/Enter)
- ♦ 2x USB
- ♦ Optional Wireless Antenna

I/O Interface - Rear

- ♦ 1x DC-in power input
- ♦ 1x VGA connector
- ♦ 1x DVI connector (with Single-Link DVI and USB signal)
- ♦ 1x RS232 Serial port
- ♦ 2x USB ports
- ♦ 1x Mic-in and 1x Speaker-out
- ♦ 1x CF card socket

LCD Display

- ♦ Display size: 15" TFT
- ♦ Resolution: 1024 x 768 max. (XGA)
- ♦ Pixel Pitch: 0.297 x 0.297mm
- ♦ Typical white Luminance: 350 nit (Typ.) @ 5.5mA
- ♦ Contrast Ratio: 700:1 (Typ.)
- ♦ Viewing Angle: 70 (Left), 70 (Right), 65 (Up), 60 (Down) / Typ.
- ♦ Backlight MTBF: 50,000 hrs

Touch Screen (Optional)

- ♦ Type: 5-wire Resistive
- ♦ Light Transmission: 0.8
- ♦ Power Consumption: 5.5V or less
- ♦ Durability (Touches Lifetime): 36 millions

Power Input

- ♦ 24V DC-in (Max. 100W)
- ♦ 1x External 100W AC/DC adapter

Environment

- ♦ Operating Temperature: 0-45 degree C
- ♦ Storage Temperature: 0-60 degree C
- ♦ Relative Humidity: 10-90% (non-condensing)

Fan-less Computer Specifications

NISE 3100SP System

Main Board

- Support Intel® Pentium® M processors in 478-pin, Micro-FCPGA package from 1.6 to 1.8 GHz with 1 MB or 2 MB L2 cache
- Support Intel® Celeron® M processors in 478-pin, Micro-FCPGA package from 1.3 to 1.5 GHz with 512 KB or 1 MB L2 cache
- Supports Low Voltage and Ultra Low Voltage Intel® Pentium® M or Celeron® M processors in 479-ball, Micro-FCBGA package
- Supports 400 MHz FSB CPUs only

Main Memory

- 2 x 184-pin DDR 200/266 DIMM sockets, up to 2 GB unbuffered non-ECC DDR SDRAM

I/O Interface

- 1 x PS/2 connector
- 1 x S-Video TV-Out
- 4 x USB 2.0 at Rear (Note: 2x USB in Front will be disable if SPC is working)
- 4 x Serial ports
- 1 x Audio Mic-in x 1 and Speaker-out
- 1 x DVI (with Single-Link DVI and USB signal)
- 2 x 10/100 Ethernet LAN
- 1 x VGA connector
- 1 x 12~30V DC Power Input for external 120W AC power adapter
- 1 x 2-pin connector output for remote power on/off switch

Device: Same as NISE 3100

Expansion Slot: Same as NISE 3100

Environment: Same as NISE 3100

NISE 3110SP System

Main Board

- Intel® Core™ 2 Duo, Core™ Duo, Celeron® M Family processors with 533/677 MHz
- Intel® Embedded Processor Reference List (Intel® Longevity CPU)
Core Duo Processor (T2300E) 1.66 G
Core Duo Processor (T2500) 2.0 G
Celeron® M530 1.73 G
Celeron® M440 1.86 G

Main Memory

- 2 x 240-pin DDR2 533/667 DIMM sockets, up to 4 GB, Dual channel unbuffered non-ECC

Note: Maximum 4GB. Actual memory size is dynamic based on the OS I/O resource allocation.

I/O Interface

- 2 x PS/2 connector
- 4 x USB 2.0 at Rear (Note: 2x USB in Front will be disable if SPC is working)
- 4 x Serial ports
- 1 x Audio Mic-in x 1 and Speaker-out
- 1 x DVI interface(with Single-Link DVI and USB signal)
- 2 x Gbe Ethernet LAN
- 1 x VGA connector
- 1 x 12~30V DC Power Input for external 120W AC power adapter
- 1 x 2-pin connector output for remote power on/off switch

Device: Same as NISE 3110

Expansion Slot: Same as NISE 3110

Environment: Same as NISE 3110

Ordering Information

- **SPC 150 (P/N: 10TSPC15000X0)** RoHS Compliant
15" Smart Panel Computer
- **SPC 150T (P/N: 10TSPC15001X0)** RoHS Compliant
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