NICE 3120

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AMD Geode™ Castle Fanless System w/VGA/Audio/1394/CF/Mini-PCI/USB 2.0 x 4/LAN x 2

RoHS Compliant

Main Features

- Supports AMD Geode™ LX800 400/500 MHz with 128 KB L2 cache
- AMD Geode™ CS5536 companion chip
- Dual 10/100 Fast Ethernet LAN Ports (VIA VT6105)
- USB 2.0 x 4/VGA/IEEE 1394/Audio Out interface
- On-board Mini-PCI socket for Wireless LAN connection
- 4 Serial Ports with RS232 support only

Product Overview

Based on the AMD Geode LX800 processor and CS5536 chipset, the rugged NICE 3120 is designed for space-critical applications requiring fanless operation, extreme reliability, low power consumption and flexible I/O configuration. The NICE 3120 is a cost-effective solution for a multitude of mission-critical embedded computing applications within automation, machine control, POS systems and transportation.

Housed in a compact 195 mm x 150 mm x 80 mm heavy-duty aluminum chassis, the NICE 3120's fanless design makes for reliable, maintenance-free industrial computing. This versatile system gives users a wide variety of connection options with a myriad of I/O ports located at both the front and rear of the unit. These include two 10/100 Ethernet LAN ports, four USB 2.0 ports, IEEE1394, VGA and Audio-out. For added flexibility, the NICE 3120 also boasts four RS232 ports, a CompactFlash socket, PC/104-Plus and one Mini-PCI expansion slot for wireless connection solutions. The NICE 3120 supports DDR memory up to 1 GB and has one 2.5" HDD drive bay.

Specifications

Main Board
- EBC 420
- Supports AMD Geode LX800 500 MHz with 128 KB L2 cache
- AMD Geode CS5536 companion chip

Main Memory
- Supports one 184-pin Non-ECC Non-Registered DDR DIMM, Max up to 1 GB

I/O Interface
- Front I/O Ports
- HDD Access/Power/LAN status LED (Act/Link; Speed)
- Programmable Alarm LED
- Programmable Status LED
- USB 2.0 x 4 ports
- Serial port x 2
- Rear I/O Ports
- Parallel port x 1
- PS/2 Keyboard/Mouse x 1
- IEEE1394 port x 1
- Serial port x 2
- Audio out x 1
- 10/100 Ethernet LAN x 2
- VGA connector x 1
- DC power +12 V input x 1

Device
- On-board CompactFlash socket x 1
- Internal 2.5" HDD drive bay x 1

Expansion Slot
- PC/104-Plus (without -12 V and -5 V)
- Mini-PCI Socket x 1

Power Input
- External 48 W AC adapter x 1
- Power input: 100 ~ 240 V AC 2 A 50/60 Hz
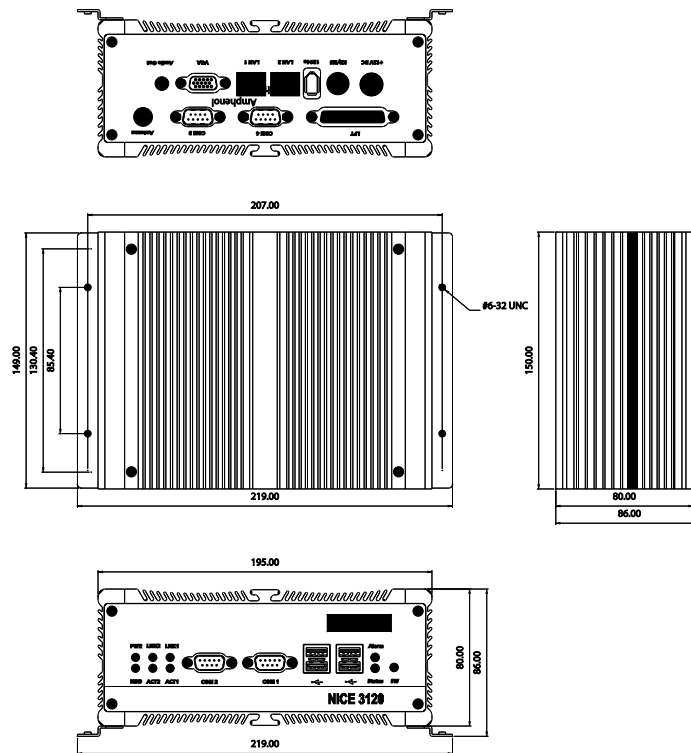- Power output: 12 V DC

Dimensions
- 195 mm (W) x 150 mm (D) x 80 mm (H) (7.68" x 5.91" x 3.15")

Construction
- Aluminum chassis with fanless Design

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Fanless Compact Box Computer

Block Diagram

Environment

- Operating temperature:
- Ambient with air flow: 0°C to 40°C
- NICE 3120 Tcase (Surface Temperature of Chassis)
  5°C to 40°C (W/HDD)
  -10°C to 45°C (W/CF card only)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

Certifications

- CE approval
- FCC

Ordering information

- **NICE 3120-LX8 (P/N: 1J00312001X0)** RoHS Compliant
  AMD Geode Castle Processor Support Fanless System with Mini-PCI
  Expansion