# NX-Ultra320-PCIe-1C
# Single Channel SCSI Controller

The NX-Ultra320-PCIe-1C Single Channel SCSI host bus adapter (HBA) for PCI Express systems lets you migrate to cutting-edge server hardware, like the HP Integrity RX2800, without sacrificing your significant investment in SCSI storage tape or hard drives. You get to have your cake and eat it too!

## PCI Profile

PCI Bus: PCI Express x4 Lanes
PCI Mode: Bus Master DMA
PCIe Voltage: +12V ±10%
PCIe Power: 10W (w/o term.)
PCIe Form Factor: 6.6" x 2.53"
PCIe Half Duplex: 1 Gb/s
PCIe Full Duplex: 2 Gb/s
Certification: PCI Express

## SCSI Profile

SCSI Bus: Ultra320 SCSI LVD
SCSI Bus: Wide Ultra SE LVD
Transfer Rate: 320 MB/s
SCSI Voltage: LVD
Bootable: Yes
Device Types: Drive or Tape

## Termination

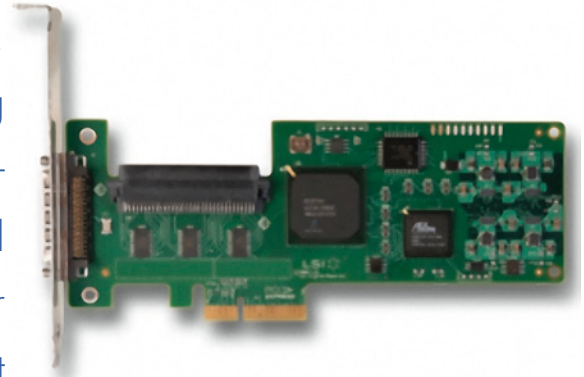All SCSI buses are terminated at the physical ends of the bus or cable

## Dimensions

D:35 cm, W:15 cm, H:44.5 cm

## Warranty

3 year warranty
Return to factory, parts and labor
Extendable to 10 years total

## About Choice

The NX-Ultra320-1C lets you choose the kind of SCSI media you wish to connect to: tape or hard disks. Furthermore, if you choose SCSI hard disk connectivity, you also have the ability to boot from those SCSI drives.

## Ultra320 SCSI Over Blazing Fast PCI Express

Ultra320 is the fastest SCSI protocol around, delivered over PCI Express' high bandwidth serial host interface. The bus has a maximum throughput of 2 Gigabytes per second, full duplex. PCIe has plenty of elbow room for the Ultra320 SCSI bus.

## Secure Investment

The NX-Ultra320-PCIe-1C solution is completely backed by Nemonix Engineering's 3-year warranty. You can also extend this standard warranty to a total of 10 years.

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## PCI Specifications

| | |
|---|---|
| Bus | PCI Express x4 Lanes |
| Modes | Bus Master DMA |
| PCI Express Performance | 1 Gigabytes per second at half duplex<br>2 Gigabytes per second at full duplex |
| Voltage | +12V ± 10% |
| Form Factor | 6.6" x 2.53" (MD2 Low-Profile) |
| Power | 10W<br>(without providing termination power) |
| Bracket | Full Height and<br>Optional Low-Profile Bracket |
| Certification Level | PCI Express 1.0a |

## SCSI Specifications

| | |
|---|---|
| Bus | Wide Ultra320, Low Voltage Differential and Wide Ultra Single-Ended |
| SAS Processor | LSI53C1020A |
| Connectors: Channel A | Internal: 68-pin HD<br>External: 68-pin VHDCI |
| Termination | Universal (LVD/SE) termination<br>per channel |
| Termination Power | Self-resetting 1.5A fuse/channel<br>10W (without providing termination power) |
| Max # of Physical Devices | 15 |

## Miscellaneous Specifications

| | | |
|---|---|---|
| LED Indicators | 4-pin header for off-board LEDs | |
| Flash Memory | 512k x8 Flash EEPROM | |
| Environments | Operating<br>0° C to 55° C<br>5 to 90% Non-condensing | Storage<br>-45° C to 105° C<br>5 to 90% Non-condensing |
| MTFB | >200,000 Hours | |
| Compliances | EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04); Europe (EN55022/EN55024); Australia/New Zealand (AS/NZS 3548); Safety: EN60950 | |
| Warranty | 3 year warranty extendable to 10 years total | |

This device may be self-installed, installed with Nemonix Engineering phone support, or installed by your service provider with Nemonix Engineering phone support. Nemonix Engineering offers 9-5 installation and warranty support during the 3-year warranty period, via phone.

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