



APPENDIX **A**

WAVE-574 Hardware Specifications

This appendix provides hardware specifications for the WAVE-574 appliance. It contains the following sections:

- [Appliance Specifications, page A-1](#)
- [Adapter Specifications, page A-4](#)

Appliance Specifications

[Table A-1](#) provides a summary of the features and specifications of the WAVE-574.

Table A-1 **WAVE-574 Features and Specifications**

| Specification | Description |
|-----------------|---|
| Microprocessor | <ul style="list-style-type: none">• 1 Intel Xeon Quad-Core Processor X3220, or 1 Intel Core 2 Quad Processor Q9400• 2.4 GHz• 8 MB Level 2 cache• 1066-MHz front-side bus (FSB) |
| Memory | <ul style="list-style-type: none">• 3 GB (optionally 6 GB) ECC DDR2 SDRAM |
| Drives standard | <ul style="list-style-type: none">• DVD-ROM/CD-RW combination drive• RAID-1 array with two 500-GB SATA hard disk drives |

Table A-1 WAVE-574 Features and Specifications (continued)

| Specification | Description |
|--|--|
| Fans | <ul style="list-style-type: none"> • 4 dual-rotor fans |
| Expansion slots | <ul style="list-style-type: none"> • 2 PCI Express x8 (1 @ x8, 1 @ x1 speed) |
| Size | <ul style="list-style-type: none"> • Height: 4.32 cm (1.70 in.) • Depth: 68.20 cm (26.85 in.) • Width: 44.80 cm (17.64 in.) |
| Weight | 11.79 kg (26.0 lb) to 15.20 kg (33.50 lb) depending upon configuration |
| Electrical Input Requirements ¹ | <ul style="list-style-type: none"> • Range Line Voltage: 90 to 132 VAC, 180 to 264 VAC • Rated Input Current: 6 A (at 100 VAC), 3 A (at 200 VAC) • Rated Input Frequency: 47 to 63 Hz • Rated Input Power: 486 W (at 100 VAC), 479 W (at 200 VAC) |
| BTU Rating | <ul style="list-style-type: none"> • 1836 BTU/hr (100 VAC) • 1706 BTU/hr (200 VAC) |
| Power supply output | <ul style="list-style-type: none"> • Rated steady-state power: <ul style="list-style-type: none"> – 400 W (100 VAC) – 400 W (200 VAC) • Maximum peak power: <ul style="list-style-type: none"> – 400 W (100 VAC) – 400 W (200 VAC) |

Table A-1 WAVE-574 Features and Specifications (continued)

| Specification | Description |
|-----------------------------|---|
| Acoustic noise ² | <ul style="list-style-type: none"> • Idle: <ul style="list-style-type: none"> – L_{WAd} –6.30 B – L_{pAm} –52.07 dB • Operating: <ul style="list-style-type: none"> – L_{WAd} –6.38 B – L_{pAm} –52.77 dB |
| Environment | <ul style="list-style-type: none"> • Air temperature: <ul style="list-style-type: none"> – Operating³: 10 to 35 °C (50 to 95 °F) – Non-operating: –30 to 60 °C (–22 to 140 °F) • Maximum rate of temperature change: <ul style="list-style-type: none"> – Operating^{4, 5}: 10 °C/hr (18 °F/hr) – Non-operating: 20 °C/hr (36 °F/hr) • Humidity: <ul style="list-style-type: none"> – Operating: 10% to 90% – Nonoperating: 5% to 95% • Maximum wet bulb temperature (noncondensing): <ul style="list-style-type: none"> – Operating: 28 °C (82.4 °F) – Nonoperating: 38.7 °C (101.7 °F) • Altitude: <ul style="list-style-type: none"> – Operating: 3,050 m (10,000 ft) – Nonoperating: 9144 m (30,000 ft) • Maximum rate of altitude change: <ul style="list-style-type: none"> – Operating: 457 m/min (1,500 ft/min) – Nonoperating: 457 m/min (1,500 ft/min) |

1. The limits apply when operated in an ambient environment temperature of +23.0°C ± 2° (+73.4°F ± 2°).

Adapter Specifications

2. Average A-Weighted sound power levels (LWAd) and average bystander position A-Weighted sound pressure levels (LpAm) in a 23°C ambient environment, measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). Acoustic noise levels are maximum measurements with four fans installed.
3. All temperature ratings shown are for sea level. An altitude derating of 1°C per 300 m (1.8°F per 1,000 ft) to 2000 m (6500 ft) is applicable. No direct sunlight allowed.
4. The type and number of options installed can limit the upper limit.
5. System performance may be reduced if operating with a fan fault above 30°C (86°F).

Adapter Specifications

Table A-2 describes the inline network adapter technical and general specifications.

Table A-2 *Inline Network Adapter Specifications*

| Specification | Description |
|---|--|
| Copper Gigabit Ethernet Specifications | |
| IEEE standard | Gigabit Ethernet, 1000BASE-T Fast Ethernet, 100BASE-T Ethernet, 10BASE-T |
| Full duplex and half duplex | Supports both half-duplex and full-duplex operation in all operating speeds |
| Autonegotiation | Autonegotiates between full-duplex and half-duplex operations and between 1000-Mbps, 100-Mbps, and 10-Mbps speeds |
| Data transfer rate | 1000-Mbps, 100-Mbps, and 10-Mbps speeds per port in half-duplex mode 2000-Mbps, 200-Mbps, and 20-Mbps speeds per port in full-duplex mode |
| Ports | 4-Port Inline Adapter: 4 × RJ-45 socket connectors 2-Port Inline Adapter: 2 × RJ-45 socket connectors |
| General Technical Specifications | |
| Interface standard | PCI-Express Base Specification Revision 1.0 |
| Size | PCI Short add in card: 6.6 × 4.4 in. (167.6 × 111.2 mm) |
| PCI Express card type | ×4 |

Table A-2 *Inline Network Adapter Specifications (continued)*

| Specification | Description |
|-----------------------|-----------------------------|
| PCI Express connector | Gold Finger: ×4 |
| PCI voltage | +3.3 V ±9% +12 V ±8% |
| Weight | 6.4 oz (180.0 g) |
| Operating humidity | 0 to 90%, noncondensing |
| Operating temperature | 50 to 95 °F (10 to 35 °C) |
| Storage temperature | -4 to 149 °F (-20 to 65 °C) |

■ Adapter Specifications