

## Pentium III Processor-based Linux Cluster Solution



*The Force Availix Platform 8-i500 is targeted at users in need of highly reliable applications including ISPs, ASPs and Internet access providers.*

### ■ Internet

### ■ Telecommunications

### ■ Industrial Control

#### Features

- Fully hot-swappable
- Dual Hot Swap Arbiter board on system slot
- Redundant active components
- Automatic controller recovery
- Controller and node recovery
- Open source Linux operating system
- Pentium III processor certified
- Scales up to seven single board computers (SBCs) in one chassis
- Supports load balancing
- Small footprint

#### Highlights

The Force Availix Platform 8-i500 brings enhanced reliability to mid-range CompactPCI platforms with redundant features such as cluster controller boards, RAID controllers, hot-swappable power supplies, as well as 2 x 36GByte hot-swappable RAID disks and a redundant fan option.

This system can scale up to seven Pentium® III processor-based single board computers and supports CompactPCI HA Hot Swap.

Lineo HA technology is the basis of the Force Availix solution, including the Lineo HA Arbiter board and clustering software.



# Force Availix Platform 8-i500



Integrating a Force chassis with Lineo Availix hardware and software, the Force Availix platform brings enhanced reliability and extendibility to mid-range CompactPCI applications.

The platform offers redundant, hot-swappable power supplies, fan modules and storage modules for enhanced availability and serviceability. Full CompactPCI Hot Swap allows users to add or exchange cluster node boards without interrupting system operation. The system has the following elements:

- Lineo HA Arbiter board with redundant PCMCIA arbiter cards
- Eight-slot CompactPCI backplane
- Disk enclosure for up to five 1-inch hard disk drives
- Two hot-swappable 36GByte disk drives
- Dual, hot-swappable 400W AC power supplies
- 19-inch rack-mount
- Hot Swap support for CompactPCI boards (PICMG 2.1)
- Redundant fan

All of these features make the Force Availix Platform 8-i500 ideal for users in need of highly reliable, cost-effective applications including:

- Internet service providers (ISPs)
- Application service providers (ASPs)
- Internet access providers (IAPs)

## Force Availix Platform hardware

With the Force Availix Platform, Force offers a modular, flexible and scalable CompactPCI system with significant High Availability (HA) features and a standard operating system based on the Linux kernel. This line of systems targets users in need of maximum up time at an affordable cost.

A Force Availix Platform 8-i500 hosts four Pentium III processor-based SBCs (upgradable to seven SBCs) featuring:

- 500MHz processors
- 256MBytes main memory
- IDE Flash disks

## Lineo HA Availix clustering software

The Lineo HA Availix clustering software provides high availability features and monitoring tools for system redundancy and Hot Swap, such as:

- Automatic reconfiguration
- Single user program for cluster administration
- Application load balancing



### System configuration

#### Processor and operating system

- Intel mobile Pentium III processor, 500MHz, 256Kbyte on-die L2 cache (base of four SBCs, upgradable to seven)
- 256MBytes onboard SDRAM with ECC support (expandable to 768MBytes)
- 512KBytes User Flash
- 16MBytes IDE Flash disk
- Factory installed Lineo Availix clustering software V1.1 (based on Linux operating system kernel)

#### Available I/O

- Two 10/100 Ethernet interfaces
- Two serial interfaces
- One parallel interface (for node boards only)
- Two USB interfaces
- Two PMC slots (one occupied by Ultra2 Wide SCSI card)

#### Chassis

- Eight-slot CompactPCI system (one slot occupied by HA Arbiter board)
- Disk enclosure for up to five 1-inch hard disk drives

- Hot swappable RAID controller
- Two hot-swappable 36.4GByte disk drives (Ultra2 Wide SCSI LVD) configured as RAID-1 set
- Redundant fan option

### Physical characteristics

#### Dimensions

- 19-inch rack-mountable
- 15.75 inches (9U) H x 17.75 inches D x 17.5 inches W (400mm x 451mm x 445mm)

#### Weight

- TBD

#### System power

- Hot Swap dual (n+1) 400W AC power supplies with individual power connector

#### Environmental

- Temperature: TBD
- Relative humidity: TBD
- Altitude: TBD
- Vibration: TBD
- Shock: TBD

### Agency approvals

- CE Declaration of Conformity (EN 55022, EN 50082-2, EN 60950)
- FCC Part 15 Class A
- UL 1950
- Others available on request

### Ordering information

Force Order Number	Model Number	Description	Systems	Options
TBD	TBD	TBD	TBD	TBD



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