

VANTAGE



Vantage Series Ultra-Small PC

Key Features

- Thermally Advantaged pico-BTX Chassis
- Intel® 945G Chipset
- Intel® Pentium® D Processor 9xx (Dual-Core)
- Intel® Celeron® D Processor 3xx
- 533 MHz, 800 MHz, or 1066 MHz FSB
- Maximum 2 GB DDR2 SDRAM
- Intel® Extended Memory 64 Technology
- Intel® 10/100 or Gigabit Ethernet
- Intel® GMA 950 Graphics
- Intel® High Definition Audio
- Six High-speed USB 2.0 Ports
- 7-in-1 Flash Memory Card Reader (Optional)
- Standard 220 Watt LFX Power Supply
- FCC DoC, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

The Vantage Series Model FT1-F300 straddles the boundary of technical superiority and worthwhile economy. Its superior computing power is provided by the latest Intel® Pentium® Processor D 9xx (Dual-Core), having two physical processors on the same silicon. In addition to its raw processing power, the small pico-BTX footprint Vantage runs cooler and quieter, thanks to both improved processor specific thermal and power enhancements and its unique architectural design. For digital multimedia storage capacity, the Vantage incorporates both Serial ATA and Parallel ATA channels for the latest (or legacy) hard disk drives. Superb video technologies such as the next generation Intel® GMA 950 Graphics or PCI Express x16 (low profile) architecture for high-end video accelerators lend to any qualitative viewing or multimedia demand-load. Pure high bandwidth data throughput is provided by an optional onboard Intel® PRO 1000 Gigabit Ethernet controller with Intel® Active Management Technology. With up to six USB 2.0 ports and one Firewire® port, virtually any number of electronic peripheral devices may be simultaneously connected to the Vantage Series.



Model FT1-F300

Vantage Series Ultra-Small PC

Processor

FC-LGA4 Package (775-land Package)
Intel® NetBurst™ Microarchitecture
533 MHz, 800 MHz, or 1066 MHz Front Side Bus (FSB)
Intel® Celeron® D Processors 3xx
2.53 GHz to 3.2 GHz (533 MHz FSB)
Intel® Pentium® 4 Processors 6xx
3.0 GHz to 3.8 GHz (800 MHz FSB)
Intel® Pentium® D Processors 805, 820, 9xx (Dual-Core)
2.66 GHz to 3.4 GHz (533 MHz or 800 MHz FSB)

Chipset

Intel® 945G Chipset
Intel® 82945G Graphics Memory Controller Hub (GMCH) with Direct Media Interface (DMI) Interconnect
Intel® 82801G I/O Controller Hub (ICH7) with DMI Interconnect
Intel® 82802AC Firmware Hub (FWH)
PCI 2.2 Compliant & Concurrent PCI for Real-Time I/O

BIOS

4 Mbit Flash EEPROM
Award® PCI BIOS - APM 1.2, Plug & Play 1.0a, SMBIOS 2.3, DMI 2.1, WfM 2.0
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b
Preboot Execution Environment (PXE) Supported
PC '01 Compliant

Cache

Intel® Celeron® D Processor 3xx
12k pop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache
256 KB On-die, Full Speed Level 2 Cache (Advanced Transfer Cache)
Intel® Pentium® 4 Processor 6xx
12k pop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache
1 MB or 2 MB On-die, Full Speed Level 2 Cache (Advanced Transfer Cache)
Intel® Pentium® D Processor 805, 820, 9xx (Dual-Core)
2 x (12k pop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache)
2 x (1 MB or 2 MB On-die, Full Speed Level 2 Cache)

System Memory

Two 240-pin Dual Channel DIMM Sockets Supporting Non-ECC 533 MHz and 667 MHz
DDR2 SDRAM Memory
128 MB, 256 MB, 512 MB, and 1 GB DIMMs
Maximum Memory capacity of 2 GB

System Management

Auto-throttling of CPU Fan in Suspend Mode to Save Power
Auto Slow-down of CPU When Overheating is Detected
Power Supply Voltage Monitoring and Alert
System Resources: Memory & Hard Disk Drive Utilization Monitoring & Alert Wake-On-LAN and Wake-On-Ring Supported
Trusted Platform Module (TPM) 1.2 Supported (Optional)

Integrated PCI IDE

1 Independent Channel - PCI Bus Master IDE Port
Supports 2 IDE or EIDE Devices
Supports PIO Modes 3 & 4 (17 MB/sec maximum)
Supports Bus Master 8237-style DMA Mode (16 MB/sec maximum)
Supports Bus Master Ultra DMA/33/66/100 (100 MB/sec maximum)
ATAPI CD-ROM Supported

Integrated Serial ATA

2 Independent Channels
Supports 2 Serial ATA Devices
Supports First Party DMA (150 MB/sec)

Integrated Video

Integrated Intel® GMA 950 Graphics Controller
Dynamic Video Memory Technology (DVMT) Supporting up to 224 MB

Integrated Audio

Intel® High Definition Audio
Integrated 2-Channel Audio via RealTek ALC260 Audio Codec
Front Panel Connectors: Lin-out and Microphone-in
Back Panel Connectors: Line 1, Line 2, HP-out, and Microphone-in/Retasking Jack
Integrated 8-Channel (7.1) Surround Sound Audio via RealTek ALC880 Audio Codec (Optional)
Front Panel Connectors: Line-out and Microphone-in
Back Panel Connectors: Line-in/Retasking Jack [Blue], Side Surround Left/Right Output [Grey], Rear Left/Right Output [Black], Center/LFE (Subwoofer) Output [Yellow], Microphone-in/Retasking Jack [Pink], Front Left/Right Output [Lime Green]

Integrated LAN

Integrated 10/100 Ethernet Subsystem
Intel® PRO 100 VE via Intel® 82562EX Ethernet Controller
Integrated Gigabit Ethernet Subsystem (Optional)
Intel® PRO 1000 via Intel® 82573E Gigabit Ethernet Controller
Intel® Active Management Technology (AMT)

Integrated Flash Memory Card Reader (Optional)

Integrated 7-in-1 Memory Card Reader
Secure Digital (SD), Compact Flash (CF), Micro Drive (MD), Smart Media (SM), Multi-Media Card (MMC), Memory Stick (MS), and Memory Stick Pro (MS-Pro) Supported

Integrated Super I/O

One PS/2 Keyboard and One PS/2 Mouse Port
One Serial Port
One ECP/EPP Parallel Port
Six USB 2.0 Ports: Two Dual Back and One Dual Front Panel Connectors
One VGA Port
One RJ-45 Port
One IEEE1394 Port

Expansion Slots

One PCI Express x16 (Low Profile)

Bus Architecture

PCI Express x16

Housing Configuration

Thermally Advantaged pico-BTX Chassis

Dimensions (d) x (w) x (h) mm/inch

320 x 280 x 85 / 12.6 x 11 x 3.3

Drive Bays

5.25 inch Slim External	1
3.5 inch Slim External	1
3.5 inch Internal	1

Power Supply Features

Input Voltage	100-120 VAC/200-240 VAC
Input Frequency	50/60 Hz
Input Currents	6 A
Device Power Connectors	1 for 5.25", and 2 for 3.5" Devices
Green PC	EEF Energy Efficient PC
Maximum Output	220 Watts
Form Factor	pico-BTX
Soft Power Switch	DC On/Off via TTL Signal

Environmental

Operating Temperature	0° to 35° C / 32° to 95° F
Storage Temperature	-40° to 70° C / -42° to 158° F
Relative Humidity	92% RH @ 36° C / 97° F

Regulatory & Product Certifications

EMI/RFI:	FCC Declaration of Conformity (DoC)
EPA:	Energy Star Compliant

Options

Vertical Chassis Stand

NCS Technologies, Inc.

9490 Innovation Drive Voice: (703) 621-1700
Manassas, VA 20110 Toll-Free: 1 (888) RING-NCS
www.ncst.com Fax: (703) 621-1701

