AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE		PAGE OF PAGES 1	2
2. AMENDMENT/MODIFICATION NO. 124	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*

6. ISSUED BY CODE

John F. Kennedy Space Center, NASA
Procurement Office – ODIN –OP-OS-ODIN
Kennedy Space Center, FL 32899

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State, and Zip Code)*

OAO Corporation
7375 Executive Place
Seabrook MD 20706

CODE FACILITY CODE

(x) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED *(SEE ITEM 11)*

10A. MODIFICATION OF CONTRACT/ORDER NO.
NAS5-98144/CC90300B

10B. DATED *(SEE ITEM 13)*
December 1, 2001

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning ____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: *(Specify authority)* THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES *(such as changes in paying office, appropriation date, etc.)* SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.1 03(b).
XX	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: **FAR CLAUSE 52.212-4 CONTRACT TERMS AND CONDITIONS-COMMERCIAL ITEMS, (c) CHANGES**
	D. OTHER *(Specify type of modification and authority)*

E. **IMPORTANT:** Contractor [ ] is not, [X] is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

KENNEDY SPACE CENTER --- ODIN SERVICES

Subject: Modify Attachment F "Listing of Accepted Seat Certifications" – Quarter 23, July2004

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER *(Type or print)*	16A. NAME AND TITLE OF CONTRACTING OFFICER *(Type or print)*
Keith L. Spencer Sr. Contract Manager	Penelope A. Ebright Contracting Officer

15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
Keith L. Spencer *(Signature of person authorized to sign)*	7/28/2004	BY Penelope A. Ebright *(Signature of Contracting Officer)*	8/5/2004

1. As set forth in Part III, Section B, Item 6 of this Delivery Order, entitled "Master Contract Attachment R Baseline Core Seat Components", this modification modifies Delivery Order Attachment F "Listing of Accepted Seat Certifications" to incorporate the PC, Mac and UNIX seat certifications for Quarter 23, July 2004 as reflected below:

Quarter (Beginning date)	Seat	Platform	System Configuration	Date Alterion Certified	Rating
Q23 (July 2004)	GP1 - Entry	PC-Desktop	Dell GX270, P4, 2.6 GHz	July 6, 2004	84.1%
Q23 (July 2004)	GP2 - Mid Range	PC-Desktop	Dell GX270, P4, 3.0 GHz	July 6, 2004	89.6%
Q23 (July 2004)	SE1/SE2 High End	PC-Desktop	Dell GX270 P4, 3.2 GHz	July 6, 2004	90.6%
Q23 (July 2004)	SE2 - Premium	PC-Desktop	Dell Precision Workstation 650, Xeon 3.20 GHz	N/A	N/A
Q23 (July 2004)	GP3 – Entry	PC-Laptop	Dell Latitude D600, 1.6 GHz	July 6, 2004	78.6%
Q23 (July 2004)	GP3 - Mid Range	PC-Laptop	Dell Latitude D800, 1.6 GHz	July 6, 2004	84.9
Q23 (July 2004)	GP3 – High End	PC-Laptop	Dell Precision M60, 1.7GHz	July 6, 2004	95.9%
Q23 (July 2004)	GP3 – Lightweight	PC-Laptop	Dell Latitude D400, 1.7 GHz	July 6, 2004	90.4%
Q23 (July 2004)	GP3 – Tablet	PC-Laptop	Toshiba M200, 1.5GHz	July 7, 2004	100%
Q23 (July 2004)	GP2 - Mid Range	Mac-Desktop	Apple PowerMac G5, 1.6 GHz	July 6, 2004	82.5%
Q23 (July 2004)	SE1/SE2 - High End	Mac-Desktop	Apple PowerMac G5 Dual, 1.8 GHz	July 6, 2004	100%
Q23 (July 2004)	GP3 - Mid Range	Mac-Laptop	Apple PowerBook G4, 1.5 GHz	July 6, 2004	100%
Q23 (July 2004)	SE1 – Entry Level (ODIN Default)	UNIX-Desktop	Dell Precision Workstation 650, 2.8 GHz	N/A	N/A
Q23 (July 2004)	SE2 - Mid Range (ODIN Default)	UNIX-Desktop	Dell Precision Workstation 650, 3.06 GHz	N/A	N/A
Q23 (July 2004)	SE3 - High End (ODIN Default)	UNIX-Desktop	Dell Workstation 650 (Dual), 3.06 GHz	N/A	N/A
Q23 (July 2004)	SE1 - Entry Level (HP)	UNIX-Desktop	HP C3750 Workstation-875 MHz,	N/A	N/A
Q23 (July 2004)	SE2 - Mid Range (HP)	UNIX-Desktop	HP C8000 Workstation- 900 MHz	N/A	N/A
Q23 (July 2004)	SE3 - High End (HP)	UNIX-Desktop	HP C8000 Workstation-Dual 1.0GHz	N/A	N/A
Q23 (July 2004)	SE1 - Entry Level (Sun)	UNIX-Desktop	Sun SunBlade 2500, 1.28 GHz	N/A	N/A
Q23 (July 2004)	SE2 - Mid Range (Sun)	UNIX-Desktop	Sun SunBlade 2500, 1.28 GHz	N/A	N/A
Q23 (July 2004)	SE3 - High End (Sun)	UNIX-Desktop	Sun SunBlade 2500, Dual, 1.28 GHz	N/A	N/A
Q23 (July 2004)	SE2 - Mid Range (SGI)	UNIX-Desktop	SGI Fuel V10, 800 MHz	N/A	N/A
Q23 (July 2004)	SE3 - High End (SGI)	UNIX-Desktop	SGI Tezro Dual 800 MHz,	N/A	N/A

2. Copies of the signed certifications for Quarter 23 PCs and Macs and unsigned forms for the SE2 PC Premium system and UNIX systems (35 pages total) are attached. The data is hereby incorporated into Attachment F (Master Contract Attachment R), Pages F-4 and F-5.

3. All other terms and conditions remain unchanged.

Quarter (Beginning date)	Seat	Platform	System Configuration	Date Alterion Certified	Rating	Mod
Q21 (Jan 2004)	GP1 - Entry	PC-Desktop	Dell GX270, P4 2.4 GHz	January 7, 2004	82.8%	101
Q21 (Jan 2004)	GP2 - Mid Range	PC-Desktop	Dell GX270, P4, 2.6 GHz	January 7, 2004	86.0%	101
Q21 (Jan 2004)	SE1/SE2 High End	PC-Desktop	Dell GX270 P4, 3.0 GHz	January 7, 2004	88.9%	101
Q21 (Jan 2004)	SE2 - Premium	PC-Desktop	Dell Precision Workstation 650, Xeon 3.20 GHz	N/A	N/A	101
Q21 (Jan 2004)	GP3 - Entry	PC-Laptop	Dell Latitude D600, M, 1.4 GHz	January 7, 2004	71.1%	101
Q21 (Jan 2004)	GP3 - Mid Range	PC-Laptop	Dell Latitude D800, 1.6 GHz	January 7, 2004	81.4%	101
Q21 (Jan 2004)	GP3 –High End	PC-Laptop	Dell LatitudeD800, 1.7 GHz	N/A	N/A	108
Q21 (Jan 2004)	GP3 – Lightweight	PC-Laptop	Dell Latitude D400, 1.7 GHz	January 7, 2004	74.8%	101
Q21 (Jan 2004)	GP1 – Entry	Mac-Desktop	Apple eMac, G4, 1.0 GHz	*	*	101
Q21 (Jan 2004)	GP2 - Mid Range	Mac-Desktop	Apple iMac, G4, 1.25 GHz	*	*	101
Q21 (Jan 2004)	SE1/SE2 - High End	Mac-Desktop	Apple PowerMac G5, 1.8 GHz	January 7, 2004	100%	101
Q21 (Jan 2004)	GP3 - Mid Range	Mac-Laptop	Apple PowerBook G4, 1.33 GHz	January 7, 2004	100%	101
Q21 (Jan 2004)	SE1 – Entry Level (ODIN Default)	UNIX-Desktop	Dell Precision Workstation 650, 533MHz, 2.8 GHz	N/A	N/A	108
Q21 (Jan 2004)	SE2 - Mid Range (ODIN Default)	UNIX-Desktop	Dell Precision Workstation 650, 533MHz, 3.06 GHz	N/A	N/A	108
Q21 (Jan 2004)	SE3 - High End (ODIN Default)	UNIX-Desktop	Dell Workstation 650 (Dual), 533MHz, 3.06 GHz	N/A	N/A	108
Q21 (Jan 2004)	SE1 - Entry Level (HP)	UNIX-Desktop	HP B2600 Workstation-500MHz	N/A	N/A	108
Q21 (Jan 2004)	SE2 - Mid Range (HP)	UNIX-Desktop	HP C3750 Workstation- 875MHz	N/A	N/A	108
Q21 (Jan 2004)	SE3 - High End (HP)	UNIX-Desktop	HP C6750 Workstation-Dual 875MHz	N/A	N/A	108
Q21 (Jan 2004)	SE1 - Entry Level (Sun)	UNIX-Desktop	Sun SunBlade 1500, 1.0 GHz	N/A	N/A	108
Q21 (Jan 2004)	SE2 - Mid Range (Sun)	UNIX-Desktop	Sun SunBlade 2000 Model 1.2, 1.2 GHz	N/A	N/A	108
Q21 (Jan 2004)	SE3 - High End (Sun)	UNIX-Desktop	Sun SunBlade 2000 Model 1.2, 1.2 GHz	N/A	N/A	108
Q21 (Jan 2004)	SE1 - Entry Level (SGI)	UNIX-Desktop	None Offered	N/A	N/A	108
Q21 (Jan 2004)	SE2 - Mid Range (SGI)	UNIX-Desktop	SGI Fuel V10, 700 MHz	N/A	N/A	108
Q21 (Jan 2004)	SE3-High End (SGI)	UNIX-Desktop	SGI Next Generation Dual 700 MHz, MIPS R16000, 700 MHz	N/A	N/A	108
Q22 (April 2004)	GP1 - Entry	PC-Desktop	Dell GX270, P4, 2.4 GHz	April 1, 2004	81%	113
Q22 (April 2004)	GP2 - Mid Range	PC-Desktop	Dell GX270, P4, 2.6 GHz	April 1, 2004	84.1%	113
Q22 (April 2004)	SE1/SE2 High End	PC-Desktop	Dell GX270 P4, 3.0 GHz	April 1, 2004	86.9%	113
Q22 (April 2004)	SE2 - Premium	PC-Desktop	Dell Precision Workstation 650, Xeon 3.20 GHz	N/A	N/A	113
Q22 (April 2004)	GP3 – Entry	PC-Laptop	Dell Latitude D600, 1.6 GHz	April 1, 2004	78.6%	113
Q22 (April 2004)	GP3 - Mid Range	PC-Laptop	Dell Latitude D800, 1.6 GHz	April 1, 2004	83.6%	113
Q22 (April 2004)	GP3 – High End	PC-Laptop	Dell Precision M60, 1.7GHz	April 1, 2004	95.9%	113
Q22 (April 2004)	GP3 – Lightweight	PC-Laptop	Dell Latitude D400, 1.7 GHz	April 1, 2004	68.1%	113
Q22 (April 2004)	GP1 – Entry	Mac-Desktop	Apple iMac, G4, 1.25 GHz	April 7, 2004	64.8%	113
Q22 (April 2004)	GP2 - Mid Range	Mac-Desktop	Apple PowerMac G5, 1.6 GHz	April 7, 2004	89.5%	113
Q22 (April 2004)	SE1/SE2 - High End	Mac-Desktop	Apple PowerMac G5, 1.8 GHz	April 1, 2004	100%	113
Q22 (April 2004)	GP3 - Mid Range	Mac-Laptop	Apple PowerBook G4, 1.33 GHz	April 1, 2004	100%	113
Q23 (July 2004)	GP1 - Entry	PC-Desktop	Dell GX270, P4, 2.6 GHz	July 6, 2004	84.1%	124
Q23 (July 2004)	GP2 - Mid Range	PC-Desktop	Dell GX270, P4, 3.0 GHz	July 6, 2004	89.6%	124
Q23 (July 2004)	SE1/SE2 High End	PC-Desktop	Dell GX270 P4, 3.2 GHz	July 6, 2004	90.6%	124
Q23 (July 2004)	SE2 - Premium	PC-Desktop	Dell Precision Workstation 650, Xeon 3.20 GHz	N/A	N/A	124
Q23 (July 2004)	GP3 – Entry	PC-Laptop	Dell Latitude D600, M, 1.6 GHz	July 6, 2004	78.6%	124
Q23 (July 2004)	GP3 - Mid Range	PC-Laptop	Dell Latitude D800, 1.6 GHz	July 6, 2004	84.9	124
Q23 (July 2004)	GP3 – High End	PC-Laptop	Dell Precision M60, 1.7GHz	July 6, 2004	95.9%	124
Q23 (July 2004)	GP3 – Lightweight	PC-Laptop	Dell Latitude D400, 1.7 GHz	July 6, 2004	90.4%	124
Q23 (July 2004)	GP3 – Tablet	PC-Laptop	Toshiba M200, 1.5GHz	July 7, 2004	100%	124
Q23 (July 2004)	GP2 - Mid Range	Mac-Desktop	Apple PowerMac G5, 1.6 GHz	July 6, 2004	82.5%	124
Q23 (July 2004)	SE1/SE2 - High End	Mac-Desktop	Apple PowerMac G5 Dual, 1.8 GHz	July 6, 2004	100%	124

Quarter (Beginning date)	Seat	Platform	System Configuration	Date Alterion Certified	Rating	Mod
Q23 (July 2004)	GP3 - Mid Range	Mac-Laptop	Apple PowerBook G4, 1.5 GHz	July 6, 2004	100%	124
Q23 (July 2004)	SE1 – Entry Level (ODIN Default)	UNIX-Desktop	Dell Precision Workstation 650, 2.8 GHz	N/A	N/A	124
Q23 (July 2004)	SE2 - Mid Range (ODIN Default)	UNIX-Desktop	Dell Precision Workstation 650, 3.06 GHz	N/A	N/A	124
Q23 (July 2004)	SE3 - High End (ODIN Default)	UNIX-Desktop	Dell Workstation 650 (Dual), 3.06 GHz	N/A	N/A	124
Q23 (July 2004)	SE1 - Entry Level (HP)	UNIX-Desktop	HP C3750 Workstation-875 MHz,	N/A	N/A	124
Q23 (July 2004)	SE2 - Mid Range (HP)	UNIX-Desktop	HP C8000 Workstation- 900 MHz	N/A	N/A	124
Q23 (July 2004)	SE3 - High End (HP)	UNIX-Desktop	HP C8000 Workstation-Dual 1.0GHz	N/A	N/A	124
Q23 (July 2004)	SE1 - Entry Level (Sun)	UNIX-Desktop	Sun SunBlade 2500, 1.28 GHz	N/A	N/A	124
Q23 (July 2004)	SE2 - Mid Range (Sun)	UNIX-Desktop	Sun SunBlade 2500, 1.28 GHz	N/A	N/A	124
Q23 (July 2004)	SE3 - High End (Sun)	UNIX-Desktop	Sun SunBlade 2500, Dual, 1.28 GHz	N/A	N/A	124
Q23 (July 2004)	SE2 - Mid Range (SGI)	UNIX-Desktop	SGI Fuel V10, 800 MHz	N/A	N/A	124
Q23 (July 2004)	SE3 - High End (SGI)	UNIX-Desktop	SGI Tezro Dual 800 MHz,	N/A	N/A	124

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: PC-Entry Level
Alterion Performance Profile Ranking: 84.1%
Alterion ID: D030904001DT

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Dell GX-270 P4 2.60Mhz
Date of Alterion Certification: 6 July 2004
Certification Expires: 30 September 2004

Desktop System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions		SMT	H: 42.6cm/16.75in W: 18.0cm/7.13in D: 44.7cm/17.61in
Case Type		Small Mini-Tower (SMT)	
Motherboard		Intel 865G	800MHz Front Side bus
BIOS Version/Date		A02 8/4/2003	
CPU Type & speed	Intel	Intel® Pentium® 4	2.60GHz
CPU Slots Used/Available		1 used, 0 available	
Bus slots, # and type		Four 4.2" high PCI (length: One 9" & three 11"), One 8XAGP full height	
AGP bus speed		AGP 8X	66 MHz
Video Display Adapter		Integrated Intel® Extreme Graphics 2 with up to 64MB shared memory	VGA DB-15 (analog)
Video Display Driver (version & date)		v.PV 13.1 Build 6.13.01.3510, A01 07/11/2003	
Hard Disk Size Access Time Spindle RPM		EIDE S.M.A.R.T. II Ultra ATA/100	40GB R/ 8.9ms, W 10.9ms 7200 RPM
HD Controller (If RAID compatible list types)		IDE ATA/100	
CD-ROM, DVD, CDRW		Internal CDRW	48X
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth		Integrated Intel® Pro/1000 MT	10/100/1000Gb
Ports and Interfaces Parallel Serial USB Firewire		1 parallel port 1 serial port 8 USB 2.0 ports, 2 front & 6 back	
USB Memory Key		USB 2.0	128MB
Keyboard		Entry QuietKey™ keyboard	104 Keys
Mouse		Optical USB 2-button scroll	
Power Supply			250W
Sound Card Full or Half Duplex		Integrated AC '97 Audio	16-bit / 48 kHz
Speaker(s)		Altec Lansing® ADA-215	2 External
Headset/Microphone		microphone-in-jack; stereo headphones/speakers jack	

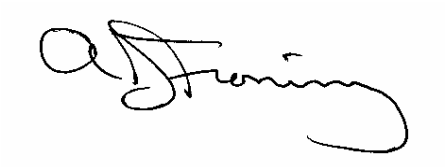
ODIN Master Contract Attachment R

Item	Mfg /Type	Number/version	Size/ Speed
Monitor – CRT /	Dell	E772p	17” 27 mm Pixel pitch 16” Viewable 1024 x 768 @ 75 Hz Analog

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM		1	512MB	400Mhz	DDR SDRAM
Cache		1	512KB	400Mhz	Level 2
Video RAM			64MB	8.0GB/Sec	DDR SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.



Andrew J Froning
Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: PC-Desktop-Mid Range
Alterion Performance Profile Ranking: 89.6%
Alterion ID: D030911002DT

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Dell GX270 P4 3.0Mhz
Date of Alterion Certification: 6 July 2004
Certification Expires: 30 September 2004

Desktop System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Dell	GX270 SMT	H: 42.6cm/16.75in W: 18.0cm/7.13in D: 44.7cm/17.61in
Case Type	Dell	Small Mini-Tower (SMT)	
Motherboard	Dell	Intel 865G	800MHz Front Side bus
BIOS Version/Date	Dell	A02 8/4/2003	
CPU Type & speed	Intel	Intel® Pentium® 4	3.0GHz
CPU Slots Used/Available	Dell	1 used, 0 available	
Bus slots, # and type	Dell	Four 4.2" high PCI (length: One 9" & three 11"), One 8XAGP full height	
AGP bus speed	Dell	AGP 8X	66 MHz
Video Display Adapter	Dell	Integrated Intel® Extreme Graphics 2 with up to 64MB shared memory	VGA DB-15 (analog)
Video Display Driver (version & date)	Dell	v.PV 13.1 Build 6.13.01.3510, A01 07/11/2003	
Hard Disk Size Access Time Spindle RPM	Dell	EIDE S.M.A.R.T. II Ultra ATA/100	40GB R/ 8.9ms, W 10.9ms 7200 RPM
HD Controller (If RAID compatible list types)	Dell	IDE ATA/100	
CD-ROM and/or DVD	Dell	Internal CDRW	48X/24X/48X
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth	Dell	Integrated Intel® Pro/1000 MT	10/100/1000Gb
Ports and Interfaces Parallel Serial USB Firewire	Dell	1 parallel port 1 serial port 8 USB 2.0 ports, 2 front & 6 back	
USB Memory Key	Dell	USB 2.0	128MB
Keyboard	Dell	Dell Entry QuietKey™ keyboard	104 Keys
Mouse	Dell	Dell Optical USB 2-button scroll	
Power Supply	Dell		250W
Sound Card Full or Half Duplex	Dell	Integrated AC '97 Audio	16-bit / 48 kHz
Speaker(s)	Dell	Altec Lansing® ADA-215	2 External
Headset/Microphone		N/A	

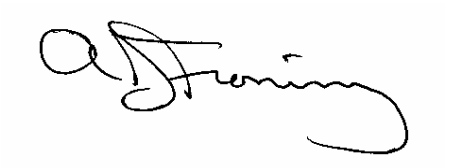
ODIN Master Contract Attachment R

Item	Mfg /Type	Number/version	Size/ Speed
Monitor – CRT /-Flat Panel	Dell	UltraSharp 1504aFP	15” .297 mm Pixel pitch 15” Viewable 1024 x 768 @ 60 Hz Analog RGB and Digital DVI-D

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Dell / 4	2	512MB	400Mhz	DDR SDRAM
Cache		1	512KB	400Mhz	Level 2
Video RAM	Intel / 0		64MB	8.0GB/Sec	DDR SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.



Andrew J Froning
Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: PC-Desktop-High End
Alterion Performance Profile Ranking: 90.6%
Alterion ID: D040308003DT

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Dell GX270 P4 3.2Mhz
Date of Alterion Certification: 6 July 2004
Certification Expires: 30 September 2004

Desktop System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Dell	GX270 SMT	H: 42.6cm/16.75in W: 18.0cm/7.13in D: 44.7cm/17.61in
Case Type	Dell	Small Mini-Tower (SMT)	
Motherboard	Dell	Intel 865G	800MHz Front Side bus
BIOS Version/Date	Dell	A02 8/4/2003	
CPU Type & speed	Intel	Intel® Pentium® 4	3.2GHz
CPU Slots Used/Available	Dell	1 used, 0 available	
Bus slots, # and type	Dell	Four 4.2" high PCI (length: One 9" & three 11"), One 8XAGP full height	
AGP bus speed	Dell	AGP 8X	66 MHz
Video Display Adapter	Dell	Integrated Intel® Extreme Graphics 2 with up to 64MB shared memory	VGA DB-15 (analog)
Video Display Driver (version & date)	Dell	v.PV 13.1 Build 6.13.01.3510, A01 07/11/2003	
Hard Disk Size Access Time Spindle RPM	Dell	EIDE S.M.A.R.T. II Ultra ATA/100	40GB R/ 8.9ms, W 10.9ms 7200 RPM
HD Controller (If RAID compatible list types)	Dell	IDE ATA/100	
CD-ROM and/or DVD	Dell	Internal CDRW	48X/24X/48X
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth	Dell	Integrated Intel® Pro/1000 MT	10/100/1000Gb
Ports and Interfaces Parallel Serial USB Firewire	Dell	1 parallel port 1 serial port 8 USB 2.0 ports, 2 front & 6 back	
USB Memory Key	Dell	USB 2.0	128MB
Keyboard	Dell	Dell Entry QuietKey™ keyboard	104 Keys
Mouse	Dell	Dell Optical USB 2-button scroll	
Power Supply	Dell		250W
Sound Card Full or Half Duplex	Dell	Integrated AC '97 Audio	16-bit / 48 kHz
Speaker(s)	Dell	Altec Lansing® ADA-215	2 External
Headset/Microphone		N/A	
Monitor – CRT /	Dell	E772p	17” 27 mm Pixel pitch 16” Viewable 1024 x 768 @ 75 Hz Analog

ODIN Master Contract Attachment R

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Dell / 4	2	512MB	400Mhz	DDR SDRAM
Cache		1	512KB	400Mhz	Level 2
Video RAM	Intel / 0		64MB	8.0GB/Sec.	DDR SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.

Andrew J Froning
Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: PC-Desktop-Premium
Alterion Performance Profile Ranking:
Alterion ID:

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Dell Workstation 650
Date of Alterion Certification:
Certification Expires:

Desktop System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Dell	Precession Workstation 650	(WxHxD) - 8.89" x 19.87" x 19.8
Case Type	Dell	Tower	
Motherboard	Dell	E7505 chipset	533MHz Front Side bus
BIOS Version/Date	Dell	A02 8/4/2003	
CPU Type & speed	Intel	Intel® Xeon™	3.20GHz
CPU Slots Used/Available	Dell	1 used, 1 available	
Bus slots, # and type	Dell	One AGP8X Pro110 Five PCI slots Two 32 bit/33 MHz PCI slots Three 64 bit/100 MHz PCI slots	
AGP bus speed	Dell	AGP8X	66 MHz
Video Display Adapter	Dell	nVidia QuadroFX 1000 Dual VGA/DVI Connection	VGA / DVI dual monitor capable 16.7M colors
Video Display Driver (version & date)	Dell	v.1036, A10 05/20/2003	
Hard Disk Size Access Time Spindle RPM	Dell	SCSI U160	36GB R/ 4.5ms, W 5.0ms 10,000 RPM
HD Controller (If RAID compatible list types)	Dell	Integrated U320 SCSI	
CD-ROM and/or DVD	Dell	Internal CDRW	48X/24X/48X
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth	Dell	Intel® 82545EM	10/100/1000Gb
Ports and Interfaces Parallel Serial USB Firewire	Dell	1 parallel port 2 serial port 6 USB 2.0 ports 2 IEEE 1394a ports	
USB Memory Key	Dell	USB 2.0	128MB
Keyboard	Dell	Dell Entry QuietKey™ keyboard	104 Keys
Mouse	Dell	Dell Optical USB 2-button scroll	
Power Supply	Dell		460W
Sound Card Full or Half Duplex	Dell	Integrated AC'97 Full-Duplex Audio	16-bit / 48 kHz
Speaker(s)	Dell	HK-395 external speakers with subwoofer	2 External
Headset/Microphone		1/8-inch Audio headphone miniature audio jack 1/8-inch Audio microphone-in miniature audio jack	

ODIN Master Contract Attachment R

Item	Mfg /Type	Number/version	Size/ Speed
Monitor – CRT /	Dell	**UltraSharp 1901FP** **Flat Panel** Analog RGB and Digital DVI	19” 294 mm Pixel pitch 19” Viewable 1280 x 1024 @ 60 Hz

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Dell / 4	2	1.0GB	266Mhz	DDR SDRAM
Cache	Dell / 0	1	1.0MB	533Mhz	Level 2
Video RAM	nVidia / 0	1	128MB		DDR SDRAM

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: PC-Laptop-Entry Level
Alterion Performance Profile Ranking: 78.6%
Alterion ID: H031217004NB

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Latitude D600
Date of Alterion Certification: 6 July 2004
Certification Expires: 30 September 2004

Notebook System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Dell	Latitude D600	1.2"(h) x 12.4"(w) x 10.1"(d)
Weight (with AC adapter)	Dell		Laptop 4.68 lbs. With Adapter 5.61 lbs.
Motherboard	Dell		
BIOS Version/Date	Dell	A06 System BIOS 8/21/2003	
CPU Type & speed	Dell	Intel Centrino Mobile Technology	1.6GHz
LCD Screen Size Standard Resolution Response Time	Dell		14.1” XGA 1024x768 pixels, 16.8 million colors 25-ms rise (typical) 35-ms fall (maximum)
Video Display Adapter	Dell	ATI Mobility RADEON 9000	4X AGP 240 MHz
Video Display Driver (version & date)	Dell	v.7.91.2-030729a 010470c, A03	8/20/2003
Hard Disk Size Access Time Spindle RPM	Dell	ATA-100 13 ms 4200 RPM	30GB
CD-ROM and/or DVD	Dell	Internal CDRW	24-10-24X
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth Modem	Dell	RJ45 Intel PRO Wireless 2100 WLAN (802.11b) mini-PCI RJ11	10/100/1000 Ethernet LAN 11Mbps at 2.4GHz 56K V.92 modem
Ports and Interfaces Parallel Serial USB Firewire Infrared	Dell	1 - 25 pin Parallel 1 – 9 pin Serial 2 – USB 2.0 Compliant 1- Infrared	IrDA Standards 1.1 (Fast IR) and 1.0 (Slow IR)
USB Memory Key	Dell	USB 2.0	128MB
Keyboard	Dell	87 key U.S. Layout	
Mouse/Integrated pointer	Dell	Dell DualPoint pointing device (both Touch Pad & Track Stick)	
Power Supply	Dell		65-watt a/c adapter
Sound Card Full or Half Duplex	Dell	Audio type/controller: AC97 (Soft Audio) / ICH3	Stereo: 20-bit stereo-digital to analog and 18-bit stereo analog to digital
Speaker(s)	Dell	Internal speakers: (Two) 4-ohm	

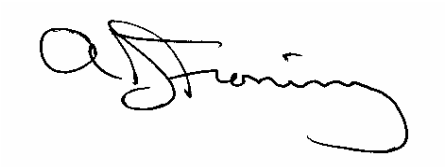
ODIN Master Contract Attachment R

Item	Mfg /Type	Number/version	Size/ Speed
Headset/Microphone	Dell	microphone-in-jack; stereo headphones/speakers jack	

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Dell / 2	1	512MB	266Mhz	SDRAM
Cache	Dell / 0	1	1.0MB		L2 ECC
Video RAM	ATI / 0	1	32MB		SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.



Andrew J Froning
Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: PC-Laptop Mid Range
Alterion Performance Profile Ranking: 84.9%
Alterion ID: D040302003NB

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Latitude D800
Date of Alterion Certification: 6 July 2004
Certification Expires:

Notebook System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Dell	Latitude D800	1.5"(h) x 14.2"(w) x 10.9"(d)
Weight (with AC adapter)	Dell		Laptop 7.\4 lbs.
Motherboard	Dell		
BIOS Version/Date	Dell		
CPU Type & speed	Dell	Intel Centrino Mobile Technology	1.6GHz
LCD Screen Size Standard Resolution Response Time	Dell	active matrix (TFT)	 15.4” WXGA 1280 X 800 pixels, 16.8 million colors 35-ms fall (maximum)
Video Display Adapter	Dell	NVIDIA™ GeForce™ 4 4200 Go	4XAGP 195 MHz
Video Display Driver (version & date)	Dell	v.6.13.10.4258, A03	7/21/2003
Hard Disk Size Access Time Spindle RPM	Dell	ATA-100 13 ms 5400 RPM	30GB
CD-ROM and/or DVD	Dell	Internal CDRW	24-10-24X
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth Modem	Dell	RJ45 Intel PRO Wireless 2100 WLAN (802.11b) mini-PCI RJ11	10/100/1000 Ethernet LAN 11Mbps at 2.4GHz 56K V.92 modem
Ports and Interfaces Parallel Serial USB Firewire Infrared	Dell	 1 - 25 pin Parallel 1 – 9 pin Serial 2 – USB 2.0 Compliant 1 – IEEE 1394 4 pin 1- Infrared	 IrDA Standards 1.1 (Fast IR) and 1.0 (Slow IR)
USB Memory Key	Dell	USB 2.0	128MB
Keyboard	Dell	87 key U.S. Layout	
Mouse/Integrated pointer	Dell	Dell DualPoint pointing device (both Touch Pad & Track Stick)	
Power Supply	Dell		90-watt a/c adapter
Sound Card Full or Half Duplex	Dell	Audio type/controller: AC97 (Soft Audio) / ICH3	Stereo: 20-bit stereo-digital to analog and 18-bit stereo analog to digital
Speaker(s)	Dell	Internal speakers: (Two) 4-ohm	
Headset/Microphone	Dell	microphone-in-jack; stereo headphones/speakers jack	

ODIN Master Contract Attachment R

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Dell / 2	2	512MB	266Mhz	SDRAM
Cache	Dell / 0	1	1.0MB		L2 ECC
Video RAM	NVIDA / 0	1	64MB		SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.

Andrew J Froning
Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: PC-Laptop High End
Alterion Performance Profile Ranking: 95.9%
Alterion ID: D040316001NB

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Dell Precision M60
Date of Alterion Certification: 6 July 2004
Certification Expires: 30 September 2004

Notebook System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Dell	M60	1.5"(h) x 14.2"(w) x 10.9"(d)
Weight (with AC adapter)	Dell		Laptop 7.0 lbs. With Adapter 8.2 lbs.
Motherboard	Dell	Intel 855PM	400Mhz
BIOS Version/Date	Dell		
CPU Type & speed	Dell	Intel Centrino Mobile Technology	1.7GHz
LCD Screen Size Standard Resolution Response Time	Dell	active matrix (TFT)	 15.4” WUXGA 1280 X 800 16.8 million colors 35-ms fall (maximum)
Video Display Adapter	Dell	NVIDIA QUADRO FX GO700	4XAGP 195 MHz
Video Display Driver (version & date)	Dell	v.6.14.10.4424, A02	02/25/04
Hard Disk Size Access Time Spindle RPM	Dell	ATA-100 13 ms 5400 RPM	40GB
CD-ROM and/or DVD	Dell	Internal CDRW	24-10-24X
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth Modem	Dell	RJ45 Intel PRO Wireless 2100 WLAN (802.11b) mini-PCI RJ11	10/100/1000 Ethernet LAN 11Mbps at 2.4GHz 56K V.92 modem
Ports and Interfaces Parallel Serial USB Firewire Infrared	Dell	 1 - 25 pin Parallel 1 – 9 pin Serial 2 – USB 2.0 Compliant 1 – IEEE 1394 4 pin 1- Infrared	 IrDA Standards 1.1 (Fast IR) and 1.0 (Slow IR)
USB Memory Key	Dell	USB 2.0	128MB
Keyboard	Dell	87 key U.S. Layout	
Mouse/Integrated pointer	Dell	Dell DualPoint pointing device (both Touch Pad & Track Stick)	
Power Supply	Dell		90-watt a/c adapter
Sound Card Full or Half Duplex	Dell	Audio type/controller: AC97 (Soft Audio) / ICH3	Stereo: 20-bit stereo-digital to analog and 18-bit stereo analog to digital
Speaker(s)	Dell	Internal speakers: (Two) 4-ohm	
Headset/Microphone	Dell	microphone-in-jack; stereo headphones/speakers jack	

ODIN Master Contract Attachment R

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Dell / 2	2	512MB	333Mhz	SDRAM
Cache	Dell / 0	1	1.0MB		L2 ECC
Video RAM	NVIDIA / 0	1	128MB		SDRAM

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Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: PC-Laptop-Lightweight
Alterion Performance Profile Ranking: 90.4%
Alterion ID: D040302001NB

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Latitude D400
Date of Alterion Certification: 6 July 2004
Certification Expires: 30 September 2004

Notebook System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Dell	Latitude D400	1.0"(h) x 11.6"(w) x 9.6"(d)
Weight (with AC adapter)	Dell		Laptop 3.7 lbs. With Adapter 4.63 lbs.
Motherboard	Dell		
BIOS Version/Date	Dell	A02 System BIOS 8/21/2003	
CPU Type & speed	Dell	Intel Centrino Mobile Technology	1.7GHz
LCD Screen Size Standard Resolution Response Time	Dell		12.1” XGA 1024x768 pixels, 16.8 million colors 20-ms rise (maximum), 30-ms fall (maximum)
Video Display Adapter	Dell	Intel UMA integrated	855GM chip set
Video Display Driver (version & date)	Dell	v.6.14.10.3553, A04	8/12/2003
Hard Disk Size Access Time Spindle RPM	Dell	ATA-100 13 ms 5400 RPM	40GB
CD-ROM and/or DVD	Dell	External CDRW	24-10-24X
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth Modem	Dell	RJ45 Intel PRO Wireless 2100 WLAN (802.11b) mini-PCI RJ11	10/100/1000 Ethernet LAN 11Mbps at 2.4GHz 56K V.92 modem
Ports and Interfaces Parallel Serial USB Firewire Infrared	Dell	1 - 25 pin Parallel 1 - 9 pin Serial 1 - USB 2.0 Compliant 1 - IEEE 1394 1 - Infrared	IrDA Standards 1.1 (Fast IR) and 1.0 (Slow IR)
USB Memory Key	Dell	USB 2.0	128MB
Keyboard	Dell	87 key U.S. Layout	
Mouse/Integrated pointer	Dell	Dell DualPoint pointing device (both Touch Pad & Track Stick)	
Power Supply	Dell		65-watt a/c adapter
Sound Card Full or Half Duplex	Dell	Audio type/controller: AC97 (Soft Audio) / ICH3	Stereo: 20-bit stereo-digital to analog and 18-bit stereo analog to digital
Speaker(s)	Dell	Internal speakers: (Two)	4 ohm
Headset/Microphone	Dell	microphone-in-jack; stereo headphones/speakers jack	

ODIN Master Contract Attachment R

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Dell / 2	2	512MB	266Mhz	SDRAM
Cache	Dell / 0	1	1.0MB		L2 ECC
Video RAM	Intel / 0	1	64MB		SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.

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Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: PC-Laptop-Tablet
Alterion Performance Profile Ranking: 100%
Alterion ID: T040319001NB

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Toshiba M200
Date of Alterion Certification: 7 July 2004
Certification Expires: 30 September 2004

Notebook System Configuration

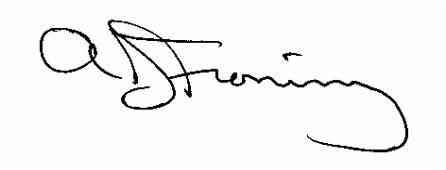
Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Toshiba	Portégé M200	WxDxH 11.6” x 9.8” x 1.3”
Weight (with AC adapter)	Toshiba		Tablet 4.4 lbs. With Adapter 5.0
Motherboard	Toshiba	Intel 855 Chipset	400Mhz Bus
BIOS Version/Date	Toshiba		
CPU Type & speed	Toshiba	Intel Pentium M	1.5GHz
LCD Screen Size Standard Resolution Response Time	Toshiba		12.1” SXGA 1400x1050 pixels, 16.8 million colors
Video Display Adapter	Toshiba	NVIDIA GeForce FX Go5200	
Hard Disk Size Access Time Spindle RPM	Toshiba	ATA-5 5400 RPM	40GB
CD-ROM and/or DVD	Toshiba	External DVD/CDRW	USB 2.0
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth Modem	Toshiba	RJ45 Intel PRO Wireless 2100 WLAN (802.11b) mini-PCI RJ11	10/100/1000 Ethernet LAN 11Mbps at 2.4GHz 56K V.92 modem
Ports and Interfaces Parallel Serial USB Firewire Infrared	Toshiba	 2 – USB 2.0 Compliant 1- Infrared	 IrDA Standards 1.1 (Fast IR) and 1.0 (Slow IR)
USB Memory Key	Toshiba	USB 2.0	128MB
Keyboard	Toshiba	84 key U.S. Layout	
Mouse/Integrated pointer	Toshiba	Digitizer Tablet Pen Touch pad	2Button Mouse with Scroll
Power Supply	Toshiba		60-watt a/c adapter
Sound Card Full or Half Duplex	Toshiba	Audio type/controller: AD1981D	Stereo: 16-bit
Speaker(s)	Toshiba	Internal speakers: (Two) 4-ohm	
Headset/Microphone	Toshiba	microphone-in-jack; stereo headphones/speakers jack	
Carry Case	Targus	Nylon carrying Case	
Battery Charger	Toshiba		Not Available
Additional Power supply	Toshiba		Toshiba 75-Watt Global AC Adapter

ODIN Master Contract Attachment R

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Toshiba / 2	1	512MB	333Mhz	SDRAM
Cache	Toshiba /0	1	1.0MB	400Mhz	L2 ECC
Video RAM	NVIDIA / 1	1	32MB		SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.



Andrew J Froning
Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA – KSC
Quarter: Q23-July 04
Platform: Mac-Desktop – Mid Range
Alterion Performance Profile Ranking: 82.5%
Alterion ID: A031223001DT

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: PowerMac G5
Date of Alterion Certification: 6 July 2004
Certification Expirees: 30 September 2004

Desktop System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Apple G5	M9031LL/A	Height: 20.1 inches (51.1 cm) Width: 8.1 inches (20.6 cm) Depth: 18.7 inches (47.5 cm)
Case Type	Apple	Tower	
Motherboard	Apple	1.6GHz PowerPC G5	800Mhz Front Side Bus
BIOS Version/Date	Apple	N/A	
CPU Type & speed	Apple	1.6GHz PowerPC G5	1.6Ghz
CPU Slots Used/Available	Apple	1 used / 0 available	
Bus slots, # and type	Apple	One open full-length 64-bit, 133MHz PCI-X slot and two open full-length 64-bit 100MHz PCI-X slots	
AGP bus speed	Apple	8X AGP	
Video Display Adapter	Apple	NVIDIA GeForce FX 5200 Ultra	1440 by 900 pixels
Video Display Driver (version & date)	Apple	N/A	
Hard Disk Size Access Time Spindle RPM	Apple	Serial ATA	80GB 7200 RPM
HD Controller (If RAID compatible list types)	Apple	Serial ATA	150-MBps data throughput
CD-ROM and/or DVD	Apple	DVD/CDRW SuperDrive	writes DVD-R discs at 4x speed, reads DVDs at 8x speed, writes CD-R discs at 16x speed, writes CD-RW discs at 10x speed, reads CDs at 32x speed
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth	Apple	Built-in 56K V.92 modem (RJ-11 connector) (4) Built-in 10/100BASE-T Ethernet (RJ-45 connector)	10/100Mbps
Ports and Interfaces Parallel Serial USB Firewire	Apple	Three USB 2.0 ports (on one front panel), two USB 1.1 ports on keyboard One FireWire 800 port and two FireWire 400 ports	12Mbps
USB Memory Key	Generic	USB 2.0	128MB
Keyboard	Apple	Apple Pro Keyboard	108 keys (on the ANSI versions)
Mouse	Apple	Apple Pro Mouse	1 button
Power Supply	Apple		Maximum current: 6.5A (low-voltage range) or 7.5A (high-voltage range)

ODIN Master Contract Attachment R

Item	Mfg /Type	Number/version	Size/ Speed
Sound Card Full or Half Duplex	Apple	Optical digital audio in, optical digital audio out, analog audio in, analog audio out,	
Speaker(s)	Apple	Altec Lansing® ADA-215	2
Headset/Microphone	Apple	Front headphone minijack and speaker Stereo audio in and out minijacks	
Monitor – CRT / LCD	Dell	E772p	17" 27 mm Pixel pitch 16" Viewable 1024 x 768 @ 75 Hz Analog

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Apple / 8	2	512MB	400Mhz	SDRAM
Cache	Apple / 1	1	512K	400Mhz	
Video RAM	Apple / 1	1	64MB		SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.

Andrew J Froning
Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA – KSC
Quarter: Q23-July 04
Platform: Mac-Desktop – High End
Alterion Performance Profile Ranking: 100%
Alterion ID: A040312001DP

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: PowerMac G5 Dual
Date of Alterion Certification: 6 July 2004
Certification Expires: 30 September 2004

Desktop System Configuration

Item	Mfg /Type	Number/version	Size/ Speed
System Dimensions	Apple G5	M9454LL/A	Height: 20.1 inches (51.1 cm) Width: 8.1 inches (20.6 cm) Depth: 18.7 inches (47.5 cm)
Case Type	Apple	Tower	
Motherboard	Apple	Dual 1.8GHz PowerPC G5	900Mhz Front Side Bus per Processor
BIOS Version/Date	Apple	N/A	
CPU Type & speed	Apple	Dual 1.8GHz PowerPC G5	Dual 1.8Ghz
CPU Slots Used/Available	Apple	2 used / 0 available	
Bus slots, # and type	Apple	Three open full-length 64-bit, 133MHz PCI-X slot and two open full-length 64-bit 100MHz PCI-X slots	
AGP bus speed	Apple	8X AGP	
Video Display Adapter	Apple	NVIDIA GeForce FX 5200 Ultra	1440 by 900 pixels
Video Display Driver (version & date)	Apple	N/A	
Hard Disk Size Access Time Spindle RPM	Apple	Serial ATA	80GB 7200 RPM
HD Controller (If RAID compatible list types)	Apple	Serial ATA	150-MBps data throughput
CD-ROM and/or DVD	Apple	DVD/CDRW SuperDrive	writes DVD-R discs at 4x speed, reads DVDs at 8x speed, writes CD-R discs at 16x speed, writes CD-RW discs at 10x speed, reads CDs at 32x speed
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth	Apple	Built-in 10/100/1000BASE-T Ethernet and 56K V.92 modem	10/100/1000Mbps
Ports and Interfaces Parallel Serial USB Firewire	Apple	Three USB 2.0 ports (on one front panel), two USB 1.1 ports on keyboard One FireWire 800 port and two FireWire 400 ports	12Mbps
USB Memory Key	Generic	USB 2.0	128MB
Keyboard	Apple	Apple Pro Keyboard	108 keys (on the ANSI versions)
Mouse	Apple	Apple Pro Mouse	1 button
Power Supply	Apple		Maximum current: 6.5A (low-voltage range) or 7.5A (high-voltage range)

ALTERION

ODIN Master Contract Attachment R

Item	Mfg /Type	Number/version	Size/ Speed
Sound Card Full or Half Duplex	Apple	Optical digital audio in, optical digital audio out, analog audio in, analog audio out,	
Speaker(s)	Apple	Altec Lansing® ADA-215	2
Headset/Microphone	Apple	Front headphone minijack and speaker Stereo audio in and out minijacks	
Monitor – CRT / LCD	Dell	E772p	17" 27 mm Pixel pitch 16" Viewable 1024 x 768 @ 75 Hz Analog

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Apple / 8	2	512MB	400Mhz	SDRAM
Cache	Apple / 1	1	512K	400Mhz	
Video RAM	Apple / 1	1	64MB		SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.

Andrew J Froning
Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA – KSC
Quarter: Q23-July 04
Platform: Mac Laptop Mid Range
Alterion Performance Profile Ranking: 100%
Alterion ID: A040615001NB

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: PowerBook G4/1.5Ghz
Date of Alterion Certification: 6 July 2004
Certification Expires: 30 September

Notebook System Configuration

Item	Mfg /Type	Number/ Version	Size/ Speed
System Dimensions	Apple	M9422LL/A	Height: 1.1 inches Width: 13.7 inches Depth: 9.5 inches
Weight (with AC adapter)	Apple		Weight: 5.7 pounds with battery and optical drive installed
Motherboard	Apple	UMA	167 MHz
BIOS Version/Date	Apple	Firmware Update 4.1.8	
CPU Type & speed	Apple	PPC G4	1.5Ghz
LCD Screen Size Standard Resolution Response Time	Apple	15.0 inch (diagonal), 1280x854 resolution, TFT widescreen	
Video Display Adapter	Apple	ATI Mobility Radeon 9700	1280 X 854 Resolution
Video Display Driver (version & date)	Apple	N/A	
Hard Disk Size Access Time Spindle RPM	Apple	Ultra ATA/100	80GB 5400 RPM
CD-ROM and/or DVD	Apple	SuperDrive (DVD-R/CD-RW	writes DVD-R discs at up to 2x speed, reads DVDs at up to 8x speed, writes CD-R discs at up to 16x speed, writes CD-RW discs at up to 4x speed, reads CDs at up to 24x speed
Network Interface: Ethernet (wired) Ethernet Wireless Bluetooth Modem	Apple	10/100/1000 BASE-T 56K V.92 modem 11-Mbps AirPort Card	10/100/1000 56K 11-Mbps
Ports and Interfaces Parallel Serial USB Firewire	Apple	One FireWire 400 (IEEE 1394a) port at up to 400 Mbps One FireWire 800 (IEEE 1394b) port at up to 800 Mbps Two USB 2.0 ports at up to 480 Mbps	400-Mbps 800-Mbps Up to 480Mbps
USB Memory Key	Generic	USB 2.0	128MB
Keyboard	Apple	Built-in full-size keyboard with 77 keys	
Mouse/Integrated pointer	Apple	Solid-state trackpad	
Power Supply	Apple		Power adapter with cable management system 65-watt-hour lithium-ion battery

ODIN Master Contract Attachment R

Item	Mfg /Type	Number/ Version	Size/ Speed
Sound Card Full or Half Duplex	Apple	Built-in stereo speakers with midrange-enhancing third speaker	
Speaker(s)	Apple	built-in stereo speakers	2
Headset/Microphone	Apple	Audio line in (minijack) Headphone out (minijack) Internal omnidirectional microphone	

Memory Module Configuration

Item	Mfg / # Slots	Quantity	MB (Total)	Speed	Type
RAM	Apple	2	512MB	333Mhz	SDRAM
Cache	Apple	1	512K	333MHz	L2 ECC
Video RAM	ATI	1	64MB		SDRAM

I hereby certify the rating listed above as the official Alterion Performance Profile Ranking, based upon the July, 2004 Market Survey. This rating is valid until October 1, 2004.

Andrew J Froning
Senior Partner, Operations

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23-July 04
Platform: UNIX HP Entry Level
Alterion Performance Profile Ranking:

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: HP C3750 Workstation, 875MHz
Date of Alterion Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	HP	C3750	January 04	PA-Risc 8700
Motherboard	HP			
CPU	HP	Risc 8700		875MHZ
BIOS	HP	N/A		N/A
Hard Disk	HP	A6031A		36GB 15k RPM
HD Controller	HP			Ultra SCSI
Floppy Drive	HP	INTERNAL		1.44MB
Keyboard	HP	PS/2 Compatible		104 Keys
Mouse	HP	PS/2 Compatible		PS/2 Compatible
Power Supply	HP			1500W
Network Interface Card	HP	Integrated		10/100Base-TX
Monitor	HP	P1230		22” Performance CRT
CD-ROM	HP	DVD ROM		
Sound Card	HP	Integrated		Integrated
Speakers	HP	Internal		Internal
Headset/Microphone	HP	No		
Microphone	HP	Internal		
Video Card	HP	VISUALIZE Graphics		VISUALIZE-fxe

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	HP	1	1.0GB	120MHz	SDRAM
Cache	HP	1	2.25MB		L2 ECC
Texture Memory	HP	1	48MB	166MHz	SGRAM

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23 – July 04
Platform: UNIX HP Mid Range
Alterion Performance Profile Ranking:

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: HP C8000 Workstation, 900MHz
Date of Alterion Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	HP	C8000	July 04	PA-Risc 8800
Motherboard	HP			
CPU	HP	Dual Risc 8800		900MHZ
BIOS	HP	N/A		N/A
Hard Disk	HP	A7214BA		73GB 15k RPM
HD Controller	HP	Ultra 320		Ultra SCSI
Floppy Drive	HP	INTERNAL		1.44MB
Keyboard	HP	USB		104 Keys
Mouse	HP	USB		3Buttons
Power Supply	HP			1500W
Network Interface Card	HP	Integrated		10/100Base-TX
Monitor	HP	P1230		21” Performance CRT
CD-ROM	HP	CDRW		
Sound Card	HP	Integrated		Integrated
Speakers	HP	Internal		Internal
Headset/Microphone	HP	No		
Microphone	HP	Internal		
USB Memory Key	HP	USB	128mb	128mb
Video Card	HP	VISUALIZE Graphics		VISUALIZE-fxe

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	HP	1	2.0GB	266MHz	SDRAM
Cache	HP	1	32MB		L2 ECC
Texture Memory	HP	1	48MB	166MHz	SGRAM

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23 – July 04
Platform: UNIX HP High End
Alterion Performance Profile Ranking:

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: HP C8000 Workstation,1.0Ghz
Date of Alterion Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	HP	J6750	July 04	PA-Risc 8800
Motherboard	HP			
CPU	HP	Dual Risc 8800		Dual 1.0Ghz
BIOS	HP	N/A		N/A
Hard Disk	HP	A7214B		73GB 15k RPM
HD Controller	HP	Ultra 320		Ultra SCSI
Floppy Drive	HP	INTERNAL		1.44MB
Keyboard	HP	USB		104 Keys
Mouse	HP	USB		3 Buttons
Power Supply	HP			620W
Network Interface Card	HP	Integrated		10/100Base-TX
Monitor	HP	P1130		21” CRT
CD-ROM	HP	DVD		48X
Sound Card	HP	Integrated		Integrated
Speakers	HP	Internal		Internal
Headset/Microphone	HP	No		
USB Memory Key	HP	USB		128mb
Microphone	HP	Internal		
Video Card	HP	VISUALIZE Graphics		VISUALIZE-fxe

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	HP	1	4.0GB	266MHz	SDRAM
Cache	HP	1	32MB		L2 ECC
Texture Memory	HP	1	110MB	200MHz	SGRAM

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23 – July 04
Platform: UNIX SGI Mid Range
Alterion Performance Profile Ranking:

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: SGI Fuel V10 800MHz
Date of Alterion Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	SGI	WF-800V10-1036	July 04	Fuel V10 Workstation
Motherboard	SGI	NSP		
CPU	SGI	R16000A		800MHZ
BIOS	SGI	N/A		
Hard Disk	SGI	P9-36G-INT		36GB 3.5” 10k RPM
HD Controller	SGI	N/A		Ultra SCSI
Floppy Drive	SGI	Optional		
Keyboard	SGI	KBA-US		104 Keys
Mouse	SGI	KBA-US		PS/2 Compatible
Power Supply	SGI	NSP		623W
Network Interface Card	SGI	Integrated		10/100Based-TX
Monitor	SGI	D-MON21A-NC		21” Flat Trinitron Tilt-swivel Color stereo Monitor
CD-ROM	SGI	P10-DVDROM-INT		Int.12X DVD ROM
Sound Card	SGI	Integrated		ADAT Optical Digital 8-Channels
Speakers	SGI	External		
Headset/Microphone		No		
USB Memory Key		USB		128mb
Microphone		Internal		
Video Card	SGI	Integrated		

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	SGI	1	1.0GB	20ns	DRAM
Cache	SGI	1	4MB	5ns	L2 ECC
Video RAM	SGI		Up to 90% of RAM	20ns	SGRAM

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23 – July 04
Platform: UNIX SGI High End
Alterion Performance Profile Ranking:

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: SGI Tezro Dual 800MHz
Date of Alterion Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	SGI	WS-2P800-T	July 04	800 MHz
Motherboard	SGI	NSP		
CPU	SGI	R16000A		Dual MIPS R16000 800MHZ
BIOS	SGI	N/A		ARC load
Hard Disk	SGI	P9-36G-INT		36GB 3.5” 10k RPM
HD Controller	SGI	Integrated		Ultra SCSI
Floppy Drive	SGI	Optional		
Keyboard	SGI	KBA-US		104 Keys
Mouse	SGI	KBA-US		PS/2 Compatible
Power Supply	SGI	NSP		623W
Network Interface Card	SGI	Integrated		10/100-TEX
Monitor	SGI	D-MON21A-NC		21” Flat Trinitron Tilt-Swivel Color stereo Monitor
CD-ROM	SGI	P10-DVDROM-INT		Int.12X DVD ROM
Sound Card	SGI	Integrated		ADAT Optical Digital 8-Channels
Speakers	SGI	External		
Headset/Microphone		No		
USB Memory Key		USB		128mb
Microphone		Internal		
Video Card	SGI	Integrated		

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	SGI	1	2.0GB	20ns	DRAM
Cache	SGI	1	4MB	5ns	L2 ECC
Video RAM	SGI		Up to 90% of RAM	20ns	SGRAM

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23 – July 04
Platform: UNIX Sun Entry Level
Alterion Performance Profile Ranking:

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Sun SunBlade 2500
Date of Alterion Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	SUN	A39-UCB1-9AB-1G-DL	Jan 04	Workstation, 1.28GHz
Motherboard	SUN			
CPU	SUN	Ultra Sparc-IIIi		1.28GHz
BIOS	N/A			
Hard Disk	Seagate	Ultra SCSI		73GB 10K RPM
HD Controller	SUN	Integrated		Ultra SCSI
Floppy Drive	NEC			Internal 1.44 MB
Keyboard	SUN	USB		UNIX Type 5
Mouse	SUN			Opto-mechanical, 3 button
Standard Interface	SUN	2 Serial, 1 Parallel, 6 PCI , 7 USB, 2 IEEE 1394		
Power Supply	SUN			10-120; 220-240 VAC
Network Interface Card	SUN	Integrated		10/100/1000 Base T
Monitor	SUN	p/n X7149A		22" Color Monitor
CD-ROM/DVD	SUN	DVD-ROM		Internal 16X IDE
Sound Card	SUN	Integrated		
Speakers	N/A	Internal		
Headset/Microphone	N/A			
USB Memory Key		USB		128mb
Microphone	SUN	Microphone II		
Video Card	SUN	XVR-100 Graphics		24-bit

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	SUN	2	1.0GB	133Mhz	SDRAM
Cache	SUN	1	1.0MB		L2
Video RAM	SUN	1	32MB		SGRAM

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23 – July 04
Platform: UNIX Sun Mid Range
Alterion Performance Profile Ranking:

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Sun SunBlade 2500
Date of Alterion Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	SUN	A39-UCB2-9WW-2G-DL	Jan 04	Workstation, 1.28GHz
Motherboard	SUN			
CPU	SUN	Dual Ultra Sparc-IIIi		1.28GHz
BIOS	N/A			
Hard Disk	Seagate	Ultra SCSI		73GB 10K RPM
HD Controller	SUN	Integrated		Ultra SCSI
Floppy Drive	NEC			Internal 1.44 MB
Keyboard	SUN	USB		UNIX Type 5
Mouse	SUN			Opto-mechanical, 3 button
Standard Interface	SUN	2 Serial, 1 Parallel, 6 PCI , 7 USB, 2 IEEE 1394		
Power Supply	SUN			10-120; 220-240 VAC
Network Interface Card	SUN	Integrated		10/100/1000 Base T
Monitor	SUN	p/n X7149A		22" Color Monitor
CD-ROM/DVD	SUN	DVD-ROM		Internal 16X IDE
Sound Card	SUN	Integrated		
Speakers	N/A	Internal		
Headset/Microphone	N/A			
Microphone	SUN	Microphone II		
USB Memory Key		USB		128mb
Video Card	SUN	XVR-600 Graphics		24-bit

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	SUN	2	2.0GB	133Mhz	SDRAM
Cache	SUN	1	1.0MB		L2
Video RAM	SUN	1	32MB		SGRAM

ODIN Master Contract Attachment R

Contractor: NASA-KSC
Quarter: Q23 – July 04
Platform: UNIX Sun High End
Alterion Performance Profile Ranking:

Prime: OAO Corporation
Prime Contract Number: NAS5-98144
System: Sun SunBlade 2500
Date of Alterion Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	SUN	A39-UCB2-9WW-2G-DL	Jan 04	Workstation, 1.28GHz
Motherboard	SUN			
CPU	SUN	Dual Ultra Sparc-IIIi		1.28GHz
BIOS	N/A			
Hard Disk	Seagate	Ultra SCSI		2 X 73GB 10K RPM
HD Controller	SUN	Integrated		Ultra SCSI
Floppy Drive	NEC			Internal 1.44 MB
Keyboard	SUN	USB		UNIX Type 5
Mouse	SUN			Opto-mechanical, 3 button
Standard Interface	SUN	2 Serial, 1 Parallel, 6 PCI , 7 USB, 2 IEEE 1394		
Power Supply	SUN			10-120; 220-240 VAC
Network Interface Card	SUN	Integrated		10/100/1000 Base T
Monitor	SUN	p/n X7149A		22" Color Monitor
CD-ROM/DVD	SUN	DVD-ROM		Internal 16X IDE
Sound Card	SUN	Integrated		
Speakers	N/A	Internal		
Headset/Microphone	N/A			
USB Memory Key		USB		128mb
Microphone	SUN	Microphone II		
Video Card	SUN	XVR-600 Graphics		24-bit

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	SUN	4	4.0GB	133Mhz	SDRAM
Cache	SUN	1	1.0MB		L2
Video RAM	SUN	1	32MB		SGRAM

ODIN Master Contract Attachment R

Contractor: NASA/KSC
Quarter: Q23 – July 04
Platform: Unix Dell -Desktop-Entry Level
ALTERION Performance Profile Ranking:

Prime:OAO Corporation
Prime Contract Number: NAS5-98144
System: Dell Precision Workstation 650
Date of ALTERION Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	Dell	Workstation 650		MiniTower
Motherboard	Dell	Dual CPU capable		533MHz Bus Speed
CPU	Intel	Pentium Xeon		2.8 GHz
BIOS	Intel	E7505		
Hard Disk	Dell	Ultra SCSI 15k RPM		73.0GB
HD Controller	Dell	Wide Ultra SCSI2		
Floppy Drive	Dell			3.5 " 1.44 Mb
Keyboard	Dell			104 Extended
Mouse	Microsoft	IntelliMouse		3 - Button
Power Supply	Dell			410 Watt
Network Interface Card	3COM	Fast XL		10/100Base-TX
Monitor	Dell	P1230		22"
CD-ROM	Dell	CDRW		48X/32X/48X
Sound Card	Dell	AC97		16-bit full duplex
Speaker(s)	Harman/Kardon	Speakers		2 piece
Headset/Microphone				
USB Memory Key		USB		128mb
Microphone				
Video Card	nVidia	nVidia QuadroFX 500		AGP

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	Various	1	1.0 GB	266MHz	RAMBUS
Cache	Intel	1	512K	275MHz	L2 ECC
Video RAM		1	128MB		SGRAM

ODIN Master Contract Attachment R

Contractor: NASA/KSC
Quarter: Q23 – July 04
Platform: Unix Dell -Desktop-Mid Range
ALTERION Performance Profile Ranking:

Prime:OAO Corporation
Prime Contract Number: NAS5-98144
System: Dell Precision Workstation 650
Date of ALTERION Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	Dell	Workstation 650		MiniTower
Motherboard	Dell	Dual CPU capable		533MHz Bus Speed
CPU	Intel	Pentium Xeon		3.06GMhz
BIOS	Intel	E7505		
Hard Disk	Dell	Ultra SCSI 15k RPM		73.0GB
HD Controller	Dell	Wide Ultra SCSI2		
Floppy Drive	Dell			3.5 “ 1.44 Mb
Keyboard	Dell			104 Extended
Mouse	Microsoft	IntelliMouse		3 - Button
Power Supply	Dell			410 Watt
Network Interface Card	3COM	Fast XL		10/100Base-TX
Monitor	Dell	P1230		22”
CD-ROM	Dell	CDRW		48X/32X/48X
Sound Card	Dell	AC97		16-bit full duplex
Speaker(s)	Harman/Kardon	Speakers		2 piece
Headset/Microphone				
USB Memory Key		USB		128mb
Microphone				
Video Card	nVidia	nVidia QuadroFX, 500,128 Dual Capable		AGP

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	Various	1	2.0GB	266MHz	RAMBUS
Cache	Intel	1	512K	275MHz	L2 ECC
Video RAM		1	128MB		SGRAM

ODIN Master Contract Attachment R

Contractor: NASA/KSC
Quarter: Q23 – July 04
Platform: Unix Dell -Desktop-High End
ALTERION Performance Profile Ranking:

Prime:OAO Corporation
Prime Contract Number: NAS5-98144
System: Dell Workstation 650 (Dual)
Date of ALTERION Certification:

System Configuration

Item	Manufacturer	Model #	Revision or Date	Size & Speed
System Unit	Dell	Workstation 650		MiniTower
Motherboard	Dell	Dual CPU		533MHz Bus Speed
CPU	Intel	Dual Xeon		3.06Ghz
BIOS	Intel	E7505		
Hard Disk	Dell	Ultra SCSI 10k RPM		146.0GB
HD Controller	Dell	Wide Ultra SCSI2		
Floppy Drive	Dell			3.5 " 1.44 Mb
Keyboard	Dell			104 Extended
Mouse	Microsoft	IntelliMouse		3 - Button
Power Supply	Dell			410 Watt
Network Interface Card	3COM	Fast XL		10/100Base-TX
Monitor	Dell	P1230		22"
CD-ROM	Dell	CDRW		48X/32X/48X
Sound Card	Dell	AC97		16-bit full duplex
Speaker(s)	Harman/Kardon	Speakers		2 piece
Headset/Microphone				
Microphone				
USB Memory Key		USB		128mb
Video Card	nVidia	nVidia QuadroFX, 500,128		AGP

Memory Module Configuration

Item	Manufacturer	Quantity	MB (Total)	Speed	Type
RAM	Various	1	2.0 GB	266MHz	RAMBUS
Cache	Intel	1	512K	275MHz	L2 ECC
Video RAM		1	128MB		SGRAM