



## Sun Entry Level Systems Line Card

SunWIN Token #346370

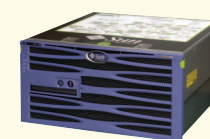
Updated June 2004

# Netra™ Systems

For more information on Netra™ Systems,  
please visit: [sun.com/servers/nebs](http://sun.com/servers/nebs)

## NETRA RACK SERVERS

SPECIFICATIONS	NETRA 120	NETRA 240	NETRA 20	NETRA 440	NETRA 1280
<b>PROCESSORS</b>					
<b>Number and Type</b>	1 x UltraSPARC® Ili	1 or 2 x UltraSPARC IIIi	1 or 2 x UltraSPARC III Cu	2 or 4 x UltraSPARC IIIi	4, 8, or 12 x UltraSPARC III Cu
<b>Clock Speed</b>	650 MHz	1.28 GHz	1.2 GHz	1.28 GHz	1.2 GHz
<b>Cache</b>	512-KB L2, 16-KB I-cache, 16-KB D-cache	1-MB L2, 32-KB I-cache, 64-KB D-cache	8-MB L2, 32-KB I-cache, 64-KB D-cache	1-MB L2, 32-KB I-cache, 64-KB D-cache	8-MB L2, 32-KB I-cache, 64-KB D-cache
<b>MEMORY</b>	Up to 4 GB	Up to 8 GB	Up to 8 GB	Up to 16 GB	Up to 96 GB
<b>MASS STORAGE AND MEDIA</b>					
<b>Internal Disk Storage</b>	Up to 2 x 36-GB or 73-GB, 10K-RPM, Ultra2 SCSI, hot-swap disks	Up to 2 x 73-GB, 15K-RPM, Ultra160 SCSI, hot-swap disks	Up to 2 x 73-GB, 10K-RPM, FC-AL, hot-swap disks	Up to 4 x 73-GB, 15K-RPM, Ultra320 SCSI, hot-swap disks	Up to 2 x 73-GB, 10K-RPM, Ultra160 SCSI, hot-swap disks
<b>Removable Media Devices</b>	CD-ROM (optional)/DVD-ROM (optional)	DVD-ROM (optional)/DVD-RW (optional)	DVD-ROM (optional)/DDS-4 DAT (optional)	DVD-ROM (optional)/DVD-RW (optional)	DVD-ROM (standard)/DDS-4 DAT (optional)
<b>STANDARD INTERFACES</b>					
<b>I/O Slots</b>	1 x 32-bit PCI slot (33 MHz)	3 x 64-bit PCI slots (1 x 66/33 MHz, 2 x 33 MHz)	4 x 64-bit PCI slots (1 x 66/33 MHz, 3 x 33 MHz)	6 x 64-bit PCI slots (3 x 33/66 MHz, 3 x 33 MHz)	6 x 64-bit PCI slots (1 x 66/33 MHz, 5 x 33 MHz)
<b>Ethernet</b>	2 x 10/100Base-T ports	4 x 10/100/1000Base-T ports, 1 x 10Base-T ports (ALOM)	1 x 10/100Base-T ports	2 x 10/100/1000Base-T ports, 1 x 10Base-T port (ALOM)	2 x 10/100/1000Base-T ports, 1 x 10/100Base-T port
<b>Serial</b>	2 x RS-232C/RS-423 ports (RJ-45)	1 x TIA/EIA-232-F port (RJ-45), 1 x TIA/EIA-232-F asynchronous port (DB9)	2 x RS-232C/RS-423 ports (DB-25)	1 x TIA/EIA-232-F (RJ-45) port, 1 x TIA/EIA-232-F asynchronous port (DB9)	2 x RS-232C/RS-423C ports (RJ-45)
<b>Parallel</b>	N/A	N/A	1 x DB-25 port	N/A	N/A
<b>USB</b>	2 x OHCI 1.0-compliant ports	2 x OHCI 1.0-compliant ports	4 x OHCI 1.0-compliant ports	4 x OHCI 1.0-compliant ports	N/A
<b>SCSI/FC-AL</b>	1 x Ultra2 SCSI port	1 x Ultra160 SCSI SE/LVD port	1 x Fast/Wide SCSI port (DB-48), 1 x FC-AL port (HSSDC)	1 x Ultra320 SCSI SE/LVD port	1 x Ultra160 SCSI port
<b>OPERATING SYSTEM</b>	Solaris™ 8 (10/01 or later), Solaris 9 (12/02 or later)	Solaris 8 (07/03), Solaris 9 (04/04)	Solaris 8 (02/02 or later), Solaris 9 (12/02 or later)	Solaris 8 (07/03), Solaris 9 (12/03)	Solaris 8 (02/02 or later), Solaris 9 (12/02 or later)
<b>ENVIRONMENTAL</b>					
<b>Form Factor</b>	1RU (1.7"H x 18.8"D x 17.2"W)	2RU (3.44"H x 19.5"D x 17.4"W)	4RU (6.97"H x 19.53"D x 17.13"W)	5RU (8.77"H x 18.75"D x 17.32"W)	12RU (20.75"H x 22.0"D x 17.5"W)
<b>Ruggedization</b>	NEBS Level 3 certified	NEBS Level 3 certified	NEBS Level 3 certified	NEBS Level 3 certified	NEBS Level 3 certified
<b>Rackmount Kits</b>	19" front/center mounts	19" 4-post kit included; optional 23" and 600-mm 2-post kits; optional 19" slider kit	19", 23", 24", and 600-mm racks, front/center mounts	19" 2/4-post kit included; optional 23" and 600-mm 2-post kits; optional 19" slider kit	Fits 19", 24", and 600-mm racks
<b>Power</b>	1 x -48V/-60V DC PSU (AC available in Sun Fire™ V120)	2 x -48V/-60V or 110V/220V AC PSUs, 1+1, hot-swap, separate power cords	1 x -48V/-60V DC or 110V/220V AC PSU	4 x -48V/-60V DC PSUs, 2+2, hot-swap, separate power cords	4 x -48V/-60V DC PSUs, 2+2, hot-swap, separate power cords (AC available in Sun Fire V1280)
<b>MANAGEMENT</b>					
<b>Status LEDs</b>	PSU, Fault, Network	PSU, Fault, Network, Alarms	PSU, Fault, Network, Alarms	PSU, Fault, Network, Alarms	PSU, Fault, Network
<b>Remote Management</b>	Lights Out Management	Advanced Lights Out Manager, Dry Contact Alarms	Lights Out Management, Dry Contact Alarms	Advanced Lights Out Manager, Dry Contact Alarms	Lights Out Management
<b>BASIC WARRANTY</b>	1 year, return to Sun	1 year, return to Sun	1 year, return to Sun	1 year, return to Sun	1 year, return to Sun





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## NETRA BLADE SERVERS

SPECIFICATIONS	NETRA CT 410	NETRA CT 810	NETRA CT 820
<b>DESCRIPTION</b>			
<b>Type</b>	4-node slot cPCI Blade Server	7-node slot cPCI Blade Server	18-node slot CPSB Blade Server
<b>Standards—PICMG</b>	2.0, 2.1, 2.14, 2.5, 2.9	2.0, 2.1, 2.14, 2.5, 2.9	2.0, 2.1, 2.16, 2.9
<b>PROCESSORS</b>			
<b>Number and Type</b>	Up to 4 x UltraSPARC Ili	Up to 7 x UltraSPARC Ili	Up to 18 x UltraSPARC Ili
<b>Clock Speed</b>	650 MHz	650 MHz	650 MHz
<b>Cache</b>	512-KB L2, 16-KB I-cache, 16-KB D-cache	512-KB L2, 16-KB I-cache, 16-KB D-cache	512-KB L2, 16-KB I-cache, 16-KB D-cache
<b>MEMORY</b>	Up to 4 GB/host, 3 GB/satellite	Up to 4 GB/host, 3 GB/satellite	Up to 2.5 GB/blade
<b>MASS STORAGE AND MEDIA</b>			
<b>Internal Disk Storage</b>	Up to 1 x 73-GB, 10K-RPM, Ultra2 SCSI disk	Up to 2 x 73-GB, 10K-RPM, Ultra2 SCSI disk	N/A
<b>Removable Media Devices</b>	N/A	DVD-ROM (optional)/DDS-4 DAT (optional)	N/A
<b>STANDARD INTERFACES</b>			
<b>System Board I/O Slots</b>	Up to 1 PMC/host, 2 PMC/satellite	Up to 1 PMC/host, 2 PMC/satellite	Up to 2 PMCs/blade, 2 PIMs/blade
<b>Ethernet</b>	2 x 10/100Base-T ports/blade	2 x 10/100Base-T ports/blade	2 x 10/100Base-T ports/blade
<b>Serial</b>	2 x RS-232C ports/blade	2 x RS-232C ports/blade	2 x RS-232C ports/blade
<b>USB</b>	2 x OHCI 1.0-compliant ports/blade	2 x OHCI 1.0-compliant ports/blade	1 x OHCI 1.1-compliant ports/blade
<b>SCSI</b>	2 x Ultra2 SCSI ports/host	2 x Ultra2 SCSI ports/host	N/A
<b>OPERATING SYSTEM</b>	Solaris 8 (02/02), Solaris 9	Solaris 8 (02/02), Solaris 9	Solaris 8 (02/02), Solaris 9
<b>ENVIRONMENTAL</b>			
<b>Form Factor</b>	12RU Chassis (21.0"H x 15.0"DC/18.4"AC D x 17.5"W), Drawer (20.1"H x 14.9"D x 4.25"W)	12RU Chassis (21.0"H x 15.0"DC/18.4"AC D x 17.5"W), Drawer (20.1"H x 14.9"D x 8.5"W)	12RU Chassis (21.0"H x 17.0"D x 17.3"W)
<b>Ruggedization</b>	NEBS Level 3 certified	NEBS Level 3 certified	NEBS Level 3 certified
<b>Rackmount Kits</b>	19", 23", 24", and 600-mm rack kits	19", 23", 24", and 600-mm rack kits	19", 23", 24", and 600-mm racks
<b>Power</b>	1 x -48V/-60V DC or 110V/220V AC PSU	2 x -48V/-60V DC or 110V/220V AC PSUs, 1+1, hot-swap, separate power cords	8 x -48V/-60V DC or 110V/220V AC PSUs, 4+4, hot-swap, separate power cords
<b>MANAGEMENT</b>			
<b>Status LEDs</b>	I/O, Alarms, PSU, CPUs, Fans, HDD, RMM	I/O, Alarms, PSUs, CPUs, Fans, HDDs, RMM	I/O, Alarms, PSUs, CPUs, Fans, DMC
<b>Remote Management</b>	Alarms Card, Element Management, Processor Management Services, Lights Out Management, IPMI System Management	Alarms Card, Element Management, Processor Management Services, Lights Out Management, IPMI System Management	Alarms Card, Element Management, Processor Management Services, Lights Out Management, IPMI System Management
<b>BASIC WARRANTY</b>	1 year, return to Sun	1 year, return to Sun	1 year, return to Sun
			

## NETRA BLADES

SPECIFICATIONS	NETRA CP2140	NETRA CP2160	NETRA CP2300
<b>DESCRIPTION</b>			
<b>Type</b>	Single slot cPCI Host Blade	Single slot cPCI Satellite Blade	Single slot CPSB Blade
<b>Standards—PICMG</b>	2.1, 2.15, 2.9	2.1, 2.15, 2.9	2.1, 2.16, 2.9
<b>PROCESSORS</b>			
<b>Number and Type</b>	1 x UltraSPARC Ili	1 x UltraSPARC Ili	1 x UltraSPARC Ili
<b>Clock Speed</b>	650 MHz	650 MHz	650 MHz
<b>Cache</b>	512-KB L2, 16-KB I, 16-KB D	512-KB L2, 16-KB I, 16-KB D	512-KB L2, 16-KB I, 16-KB D
<b>MEMORY</b>	Up to 4 GB	Up to 3 GB	Up to 2.5 GB
<b>MASS STORAGE AND MEDIA</b>			
<b>Internal Disk Storage</b>	N/A (optional via PMC slot)	N/A (optional via PMC slot)	N/A (optional via PMC slot)
<b>Removable Media Devices</b>	N/A	N/A	N/A
<b>STANDARD INTERFACES</b>			
<b>System Board I/O Slots</b>	Up to 1 PMC	Up to 2 PMCs	Up to 2 PMCs & 2 PIMs
<b>Ethernet</b>	2 x 10/100Base-T ports	2 x 10/100Base-T ports	2 x 10/100Base-T ports
<b>Serial</b>	2 x RS-232C ports	2 x RS-232C ports	2 x RS-232C ports
<b>USB</b>	2 x OHCI 1.0-compliant ports	2 x OHCI 1.0-compliant ports	1 x OHCI 1.1-compliant ports
<b>SCSI</b>	2 x Ultra2 SCSI ports	N/A	N/A
<b>OPERATING SYSTEM</b>	Solaris 8 (02/02), Solaris 9	Solaris 8 (02/02), Solaris 9	Solaris 8 (02/02), Solaris 9
<b>ENVIRONMENTAL</b>			
<b>Form Factor</b>	6RU (9.2"H x 6.2"D x 0.8"W)	6RU (9.2"H x 6.2"D x 0.8"W)	6RU (9.2"H x 6.2"D x 0.8"W)
<b>Ruggedization</b>	NEBS Level 3 certified	NEBS Level 3 certified	NEBS Level 3 certified
<b>Rackmount Kits</b>	N/A	N/A	N/A
<b>Power</b>	20W (typical)	25W (typical)	25W (typical)
<b>MANAGEMENT</b>			
<b>Status LEDs</b>	Power, Hot-swap, User	Power, Hot-swap, User	Power, Hot-swap, User
<b>Remote Management</b>	Processor Management Services, IPMI System Management	Processor Management Services, IPMI System Management	Processor Management Services, IPMI System Management
<b>BASIC WARRANTY</b>	1 year, return to Sun	1 year, return to Sun	1 year, return to Sun
	