



Intel[®] Gigabit Server and Desktop Adapters

Quick Reference Guide

Revision History

<i>Revision</i>	<i>Revision History</i>	<i>Date</i>
-001	First release of the Intel® Gigabit Server and Desktop Adapters Quick Reference Guide	October 2010
-002	Included product codes with the corresponding description found on http://www.intel.com/support/network/sb/cs-009221.htm	January 2011
-003	Fixed some typo errors.	January 2011
-004	Included Advance Software Features, Supported OS and details for Fiber Channel over Ethernet for of Intel® Ethernet Server Adapter I350- T2 and of Intel® Ethernet Server Adapter I350- T4. Updated Max TDP of Intel® Ethernet Server Adapter I350- T4.	September 2011

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Name	Intel® 10 Gigabit AF DA Dual Port Server Adapter	Intel® 10 Gigabit AT Server Adapter	Intel® 10 Gigabit AT2 Server Adapter	Intel® 10 Gigabit CX4 Dual Port Server Adapter	Intel® 10 Gigabit XF LR Server Adapter	Intel® 10 Gigabit XF SR Dual Port Server Adapter	Intel® 10 Gigabit XF SR Server Adapter	Intel® Ethernet Server Adapter X520-DA2	Intel® Ethernet Server Adapter X520-LR1	Intel® Ethernet Server Adapter X520-SR1	Intel® Ethernet Server Adapter X520-SR2	Intel® Ethernet Server Adapter X520-T2	NetEffect™ Ethernet Server Cluster Adapter CX4	NetEffect™ Ethernet Server Cluster Adapter DA	NetEffect™ Ethernet Server Cluster Adapter SFP+ SR
Code Name	Long Cove	Copper Pond	Copper Pond	Cedar Cove	Bellefontaine	Spring Fountain	Bellefontaine	Spring Fountain	Spring Fountain	Spring Fountain	Spring Fountain	Iron Pond T2	N/A	N/A	N/A
Product Code	E10G42AFDA	E10G41AT	E10G41AT2	EXP9502CX4	EXP9501AFXR	EXP9502AFXR	EXP9501AFXR	E10G42B1DA	E10G41BFLR	E10G41BFSR	E10G41BFSR	E10G81G2P	E10G81G2CX4	E10G81G2P	E10G81G2SR
Status	Launched	End of Life	Launched	Launched	Launched	Launched	Launched	Launched	Launched	Launched	Launched	Launched	Launched	Launched	Launched
Launch Date	Q2'08	Q3'08	Q3'08	Q2'08	Q4'07	Q4'07	Q4'07	Q3'09	Q3'09	Q3'09	Q3'09	Q3'10	Q2'09	Q2'09	Q2'09
Vertical Segment	Server	Server	Server	Server	Server	Server	Server	Server	Server	Server	Server	Server	Server	Server	Server
Ethernet Controller(s)	Intel® B259EB	Intel® B259EB	Intel® B259EB	Intel® B259EB	Intel® B259EB	Intel® B259EB	Intel® B259EB	Intel® B259ES	Intel® B259ES	Intel® B259ES	Intel® B259ES	Intel® B259ES	NetEffect™ NE020	NetEffect™ NE020	NetEffect™ NE020
Cable Medium	Copper	Copper	Copper	Copper	Fiber	Fiber	Fiber	Copper	Fiber	Fiber	Fiber	Copper	NetEffect™ NE020	Copper	Fiber
Bracket Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height	Low Profile & Full Height
Security	SFP+ Direct Attached Twin Axial Cabling up to 10m	10GBASE-T: 100 m on Cat-6A, 55 m on Cat-6 1000BASE-T: 100 m on Cat-5e, Cat-6 or Cat-6A	10GBASE-T: 100 m on Cat-6A, 55 m on Cat-6 1000BASE-T: 100 m on Cat-5e, Cat-6 or Cat-6A	10GBASE-T: 100 m on Cat-6A, 55 m on Cat-6 1000BASE-T: 100 m on Cat-5e, Cat-6 or Cat-6A	8 pair, 100ohm Twin Axial Cabling up to 15m	SFM up to 10km	MMF up to 300m	MMF up to 300m	SFP+ Direct Attached Twin Axial Cabling up to 10m	SFM up to 10km	MMF up to 300m	Cat 6A up to 100m	8 pair, 100ohm Twinax up to 15m	SFP+ Direct Attach Twin Axial Cabling up to 10m	MMF up to 300m
Cabling Type															
Max TDP	12.2 W	15.5 W	15.5 W	15.5 W	11.5 W	14 W	14 W	10.4 W	14 W	11.5 W	14 W	19 W	8.5 W	6.2 W	9 W
# of Ports	Dual	Single	Single	Dual	Single	Dual	Dual	Dual	Single	Single	Single	Dual	Single	Single	Single
Interface Type (Slot type, maximum bus speed, slot width)	PCIe v2.0 (2.5GT/s)	PCIe v2.0 (2.5GT/s) x8	PCIe v2.0 (2.5GT/s)	PCIe v2.0 (2.5GT/s)	PCIe v2.0 (2.5GT/s)	PCIe v2.0 (2.5GT/s)	PCIe v2.0 (2.5GT/s)	PCIe v2.0 (2.5GT/s)	PCIe v2.0 (5.0GT/s)	PCIe v2.0 (5.0GT/s)	PCIe v2.0 (5.0GT/s)	PCIe v2.0 (5.0GT/s)	PCIe v1.1 (2.5GT/s)	PCIe v1.1 (2.5GT/s)	PCIe v1.1 (2.5GT/s)
Operating Temperature Range	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C	0-55C
Message Signal Interrupt	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intel® Virtualization Technology for Connectivity (VT-c)	VMDq	INTA, MSI, MSI-X	VMDq	VMDq	VMDq	VMDq	VMDq	VMDq & VMDc	VMDq	VMDq & VMDc	VMDq & VMDc	VMDq & VMDc	VMDq & VMDc	VMDq & VMDc	VMDq & VMDc
Receive Side Scaling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fiber Channel over Ethernet	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Advance Software Features	<p>Adapter Fault Tolerance (AFT)</p> <p>Switch Fault Tolerance (SFT)</p> <p>Adaptive Load Balancing (ALB)</p> <p>Teaming support</p> <p>IEEE 802.3ae-5</p> <p>Test switch configuration Tested with major switch original equipment manufacturers (OEMs)</p> <p>PCIe Hot Plug/Active Peripheral Component Interconnect (PCI)</p> <p>IEEE 802.1Q VLANs</p> <p>IEEE 802.3 2005* flow control support</p> <p>Tx/Rx IP, TCP, & UDP checksum offloading (IPv4, IPv6) capabilities (Transmission control protocol (TCP), user datagram protocol (UDP), Internet Protocol (IP))</p> <p>IEEE 802.1p</p> <p>TCP segmentation/large send offload</p> <p>MSI-X supports Multiple Independent Queues</p> <p>Interrupt moderation</p> <p>IPv6 offloading Checksum and segmentation capability extended to new standard packet type</p>	<p>Adapter Fault Tolerance (AFT)</p> <p>Switch Fault Tolerance (SFT)</p> <p>Adaptive Load Balancing (ALB)</p> <p>Teaming support</p> <p>IEEE 802.3ad-5 (link aggregation control protocol)</p> <p>PCIe Hot Plug/Active Peripheral Component Interconnect (PCI)</p> <p>IEEE 802.1Q VLANs</p> <p>IEEE 802.3 2005* flow control support</p> <p>Tx/Rx IP, TCP, & UDP checksum offloading (IPv4, IPv6) capabilities (Transmission control protocol (TCP), User Datagram Protocol (UDP), Internet Protocol (IP))</p> <p>IEEE 802.1p</p> <p>TCP segmentation/large send offload</p> <p>MSI -X supports Multiple Independent Queues</p> <p>Interrupt moderation</p> <p>IPv6 offloading</p>	<p>Adapter Fault Tolerance (AFT)</p> <p>Switch Fault Tolerance (SFT)</p> <p>Adaptive Load Balancing (ALB)</p> <p>Teaming support</p> <p>IEEE 802.3ad-5 (link aggregation control protocol)</p> <p>PCIe Hot Plug/Active Peripheral Component Interconnect (PCI)</p> <p>IEEE 802.1Q VLANs</p> <p>IEEE 802.3 2005* flow control support</p> <p>Tx/Rx IP, TCP, & UDP checksum offloading (IPv4, IPv6) capabilities (Transmission control protocol (TCP), User Datagram Protocol (UDP), Internet Protocol (IP))</p> <p>IEEE 802.1p</p> <p>TCP segmentation/large send offload</p> <p>MSI -X supports Multiple Independent Queues</p> <p>Interrupt moderation</p> <p>IPv6 offloading Checksum and segmentation capability extended to new standard packet type</p>	<p>Adapter Fault Tolerance (AFT)</p> <p>Switch Fault Tolerance (SFT)</p> <p>Adaptive Load Balancing (ALB)</p> <p>Teaming support</p> <p>IEEE 802.3ad-4 (link aggregation control protocol)</p> <p>Test switch configuration Tested with major switch original equipment manufacturers (OEMs)</p> <p>PCIe Hot Plug/Active Peripheral Component Interconnect (PCI)</p> <p>IEEE 802.1Q VLANs</p> <p>IEEE 802.3 2005* flow control support</p> <p>IPv6, IPv4</p> <p>Tx/Rx IP, TCP, and UDP checksum offloading (IPv4, IPv6) capabilities control protocol (TCP), user datagram protocol (UDP), Internet Protocol (IP))</p> <p>IEEE 802.1p</p> <p>TCP segmentation/large send offload</p> <p>MSI -X supports Multiple Independent Queues</p> <p>Interrupt moderation</p> <p>IPv6 offloading Checksum and segmentation capability extended to new standard packet type</p>	<p>Adapter fault tolerance (AFT)</p> <p>Switch fault tolerance (SFT)</p> <p>Adaptive load balancing (ALB)</p> <p>Teaming support</p> <p>IEEE 802.3ad-4</p> <p>Link aggregation control protocol</p> <p>Test switch configuration Tested with major switch original equipment manufacturers (OEMs)</p> <p>PCIe Hot Plug/Active peripheral component interconnect (PCI)</p> <p>IEEE 802.1Q VLANs</p> <p>IEEE 802.3 2005* flow control support</p> <p>IPv6, IPv4</p> <p>Tx/Rx IP, TCP, and UDP checksum offloading (IPv4, IPv6) capabilities control protocol (TCP), user datagram protocol (UDP), Internet Protocol (IP))</p> <p>IEEE 802.1p</p> <p>TCP segmentation/large send offload</p> <p>MSI -X supports Multiple Independent Queues</p> <p>Interrupt moderation</p> <p>IPv6 offloading Checksum and segmentation capability extended to new standard packet type</p>	<p>Adapter fault tolerance (AFT)</p> <p>Switch fault tolerance (SFT)</p> <p>Adaptive load 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Supported Operating System	<p>Windows 7¹</p> <p>Windows Server 2008 R2 Core (x64 and IPF)</p> <p>Windows 2008</p> <p>Microsoft Windows* 2003 Server IA32, X64</p> <p>Microsoft Vista* IA32, X64, IPF</p> <p>Windows Virtual Server* 2005 IA32, X64, IPF</p> <p>Red Hat Linux* 2.6x or later, IA32, X64, IPF</p> <p>SUSE SLES 10* or later, Professional 9.2 or later</p> <p>FreeBSD 5.x* or later</p> <p>IA32, X64, IPF</p> <p>FreeBSD 5.x or later IA32, X64, IPF</p> <p>ESX 3x* support (for VMware) IA32, X64, IPF</p> <p>Fedora* IA32, X64, IPF</p> <p>EFI 1.1 IA32, X64, IPF</p>	<p>Windows 7¹</p> <p>Windows Server 2008 R2²</p> <p>Windows 2008</p> <p>Microsoft Windows* 2003 Server 2003*</p> <p>Microsoft Vista*</p> <p>Microsoft Vista*</p> <p>Red Hat Enterprise 4* or later</p> <p>SUSE SLES 10* or later,</p> <p>Professional 9.2 or later</p> <p>SUSE SLES 10* or later,</p> <p>Professional 9.2 or later</p> <p>FreeBSD 5.x* or later</p> <p>VMware ESX 3.x* support</p> <p>Fedora*</p> <p>EFI 1.1</p>	<p>Microsoft Windows Server 2003*</p> <p>Microsoft Vista*</p> <p>Microsoft Windows Virtual Server 2005*</p> <p>Red Hat Enterprise 4* or later</p> <p>SUSE SLES 10* or later,</p> <p>Professional 9.2 or later</p> <p>FreeBSD 5.x* or later</p> <p>VMware ESX 3.x* support</p> <p>Fedora*</p> <p>EFI 1.1</p>	<p>Windows 7¹</p> <p>Windows Server 2008 R22</p> <p>Windows Vista SP1 IA32, X64</p> <p>Windows Server* 2003 SP2 IA32, X64, IPF</p> <p>Windows Unified Storage Solution* 2003 IA32, X64, IPF</p> <p>Windows Server* 2008 IA32, X64, IPF</p> <p>Linux* Stable Kernel version 2.6 IA32, X64, IPF</p> <p>Linux* RHEL 4 and RHEL 5 IA32, X64, IPF</p> <p>Linux* SLES 9 and SLES 10 IA32, X64, IPF</p> <p>FreeBSD* 7.0 IA32, X64, IPF</p> <p>EFI* 1.1 IA32, X64, IPF</p>	<p>Windows 7¹</p> <p>Windows Server 2008 R2²</p> <p>Windows 2008</p> <p>Windows Server 2008 R2²</p> <p>Windows 2008</p> <p>Microsoft Windows* 2003 Server</p> <p>Microsoft Vista*</p> <p>Windows Server 2003</p> <p>Linux*</p> <p>Free BSD*</p>	<p>Windows 7¹</p> <p>Windows Server 2008 R2²</p> <p>Windows 2008</p> <p>Windows Server 2008 R2²</p> <p>Windows 2008</p> <p>Microsoft Windows* 2003 Server</p> <p>Microsoft Vista*</p> <p>Windows Virtual Server 2005</p> <p>Red Hat Enterprise Linux* 4 or later</p> <p>SUSE SLES* 10 or later, Professional 9.2 or later</p> <p>FreeBSD 5.x or later</p>	<p>Windows 7¹</p> <p>Windows Server 2008 R2*</p> <p>Windows 7*</p> <p>Windows Server 2008* SP2</p> <p>Windows Vista* SP2</p> <p>Windows Server 2003 R2*</p> <p>Windows Server 2003* SP2</p> <p>Linux* Stable Kernel version 2.6</p> <p>Red Hat Enterprise Linux* version 4.7</p> <p>Red Hat Enterprise Linux* version 5.3</p> <p>Novell SUSE Linux Enterprise Server 10 SP2</p> <p>Novell SUSE Linux Enterprise Server 11</p> <p>FreeBSD* version 7.3 and later</p>	<p>Windows 7¹</p> <p>Windows Server 2008 R2*</p> <p>Windows 7*</p> <p>Windows Server 2008* SP2</p> <p>Windows Vista* SP2</p> <p>Windows Server 2003 R2*</p> <p>Windows Server 2003* SP2</p> <p>Linux* Stable Kernel version 2.6</p> <p>Red Hat Enterprise Linux* version 4.7</p> <p>Red Hat Enterprise Linux* version 5.3</p> <p>Novell SUSE Linux Enterprise Server 10 SP2</p> <p>Novell SUSE Linux Enterprise Server 11</p> <p>FreeBSD* version 7.3 and later</p>	<p>Windows Server 2008 R2*</p> <p>Windows 7*</p> <p>Windows Server 2008* SP2</p> <p>Windows Vista* SP2</p> <p>Windows Server 2003 R2*</p> <p>Windows Server 2003* SP2</p> <p>Linux* Stable Kernel version 2.6</p> <p>Red Hat Enterprise Linux* version 4.7</p> <p>Red Hat Enterprise Linux* version 5.3</p> <p>Novell SUSE Linux Enterprise Server 10 SP2</p> <p>Novell SUSE Linux Enterprise Server 11</p> <p>FreeBSD* version 7.3 and later</p>	<p>Windows Server 2008 R2*</p> <p>Windows 7*</p> <p>Windows Server 2008* SP2</p> <p>Windows Vista* SP2</p> <p>Windows Server 2003 R2*</p> <p>Windows Server 2003* SP2</p> <p>Linux* Stable Kernel version 2.6</p> <p>Red Hat Enterprise Linux* version 4.7</p> <p>Red Hat Enterprise Linux* version 5.3</p> <p>Novell SUSE Linux Enterprise Server 10 SP2</p> <p>Novell SUSE Linux Enterprise Server 11</p> <p>FreeBSD* version 7.3 and later</p>	<p>Windows 7 (IA32 and X64)</p> <p>Windows Server 2008 R2 (x64 and IPF)</p> <p>Linux SLES 11 SP1</p> <p>Microsoft Windows Server 2003*</p> <p>Microsoft Vista*</p> <p>Microsoft Windows Virtual Server 2005*</p> <p>Red Hat Enterprise 4* or later</p> <p>SUSE SLES 10* or later,</p> <p>Professional 9.2 or later</p> <p>FreeBSD 5.x* or later</p> <p>VMware ESX 3.x* support</p> <p>Fedora*</p> <p>EFI 1.1</p>	<p>Microsoft Windows* Server 2003 (layer 2 only)</p> <p>Protocol software supporting Linux Novell* and Red Hat*, kernels 2.6.9 and higher</p>	<p>Microsoft Windows* Server 2003 (layer 2 only)</p> <p>Protocol software supporting Linux Novell* and Red Hat*, kernels 2.6.9 and higher</p>	<p>Microsoft Windows* Server 2003 (layer 2 only)</p> <p>Protocol software supporting Linux Novell* and Red Hat*, kernels 2.6.9 and higher</p>	

¹ http://www.intel.com/support/network/bt/CS-030613.htm
² http://www.intel.com/support/network/bt/CS-030614.htm



Intel® Gigabit Desktop Adapters

	Intel® Gigabit CT Desktop Adapter	Intel® PRO/1000 GT Desktop Adapter
Name	Shelter Island	Stebbins 2
Code Name	Shelter Island	Stebbins 2
Product Code	EXPI9301CT	PWLA8391GT
Status	Launched	Launched
Launch Date	Q2 '08	Q3 '04
Vertical Segment	Desktop	Desktop
Ethernet Controller	Intel® 82574L	Intel® 82541PI
Cable Medium	Copper	Copper
Bracket Height	Low Profile & Full Height	Low Profile & Full Height
Cabling Type	Category-5 up to 100m	Category-5 up to 100m
Max TDP	1.9 W	
# of Ports	Single	Single
Interface Type	PCIe v2.0 (2.5GT/s)	PCI
Temperature Range	0-55C	0-55C
Intel® Virtualization Technology for Connectivity (VT-c)	VMDq	
Receive Side Scaling	Yes	
Advance Software Features	<p>Test switch configuration Tested with major switch original equipment manufacturers (OEMs)</p> <p>TCP checksum offload - transition control protocol (TCP), user diagram protocol (UDP), Internet protocol (IP)</p> <p>IEEE 802.1p*, Intel(R) Priority Packet 8</p> <p>TCP segmentation/large send offload</p> <p>Teaming support</p> <p>Interrupt moderation</p> <p>Tx/Rx IP</p>	<p>IEEE 802.1Q Virtual Local Area Network (VLANs)</p> <p>IEEE 802.3x Flow Control</p> <p>Transmission Control Protocol (TCP) Checksum Offload</p> <p>IEEE 802.1p, Intel® Priority Packet II</p>
Supported Operating System	<p>Windows* 2000</p> <p>Windows* Server 2003</p> <p>Windows* Server 2008</p> <p>Windows XP* (Service Pack 2) [Service Pack 3 is to be released mid-year]</p> <p>Windows Vista* (Service Pack 1)</p> <p>Linux* RHEL 4.6</p> <p>Linux* Kernel version 2.6.24</p> <p>Linux* Kernel version 2.4.36.2</p> <p>RHEL* 5.1</p> <p>SLES* 9 SP4</p> <p>SLES* 10 SP1</p> <p>FreeBSD* 7.0</p> <p>DOS*</p> <p>DOSODI*</p> <p>SCO OpenServer 6/Unixware* 7.1.x</p> <p>Novell Netware* 6.5</p> <p>Xen*</p> <p>FreeBSD* 5.x or later</p> <p>ESX* 3.x* support (for VMware)</p>	<p>Windows Server 2008 R2* 2</p> <p>Windows Server* 2008</p> <p>Windows 7 1</p> <p>Windows* Vista</p> <p>Microsoft Windows* 2000, XP</p> <p>Microsoft Windows NT* 4.0</p> <p>Microsoft Windows 98 SE, Me</p> <p>Disk Operating System (DOS) and Disk Operating System Optical Digital Image (DOSODI)</p> <p>Linux* 2.2.5 or Later</p> <p>Novell Netware* 4.2, 5.1, 6.0</p>

Networking Specifications

¹ <http://www.intel.com/support/network/sb/CS-030613.htm>

² <http://www.intel.com/support/network/sb/CS-030614.htm>

