

<http://intel.com/go/ethernet>

#### Driver Support

Microsoft Windows Vista\* (32 & 64 bit)  
Microsoft Windows XP\* (32 & 64 bit)  
Microsoft Windows CE\*  
Microsoft Windows NT\*  
Microsoft Windows 2000 Server\*  
Microsoft Windows Server 2003\* (32 & 64 bit)  
SCO UnixWare\* 7.x  
Open Unix\* 8.0  
Novell ODI\*  
Novell Netware\*  
SUSE Linux Enterprise Server\* 9.0  
Red Hat Enterprise Linux\* 4.0  
Linux\*  
FreeBSD\*  
Sun Solaris\*  
Microsoft DOS\*  
VMware ESX\*

#### Intel® Advanced Networking Services

##### Teaming

Initiate a team with up to eight NICs.

##### Multi-Vendor Teaming

Allows teaming with third-party NICs and LOM solutions.

##### Adapter Fault Tolerance

Provides automatic redundancy for the server's network connection should the primary adapter fail.

##### Transmit and Receive Load Balancing

Balances network traffic across teamed network connections.

##### 802.1q VLAN Tagging

Allows teaming in multiple sub-networks by creating virtual adapters.

##### Link Aggregation

Supports Intel® Link Aggregation, Fast EtherChannel, Gigabit EtherChannel, and IEEE 802.3ad standards. Continues to balance traffic even if one of the teamed connections loses link.



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\*Other names and brands may be claimed as the property of others.

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## Intel® Ethernet Controllers and PHYs



# Intel® Ethernet Controllers and PHYs

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Product	Device	Package Size/ Physical Package	Host Interface/ Bus Type	Performance Features	Target Applications	Management Features	Power (Typical)	Power (Standby)	Operating Temp	Power Supply	Order Code	Footprint Compatible with:
Intel® B2598EB	Dual Port 10GbE MAC XAU, XKA, CX4	31x21 mm 803-pin FCBGA	PCI Express* x2/x4/x8	Intel® VO Acceleration Technology 32Tx, 64Rx queues, message signaled interrupts, receive side scaling, direct cache access, low latency interrupt, flow interrupt priority, priority grouping, congestion management, virtual machine device queues	Enterprise servers, blades, embedded systems	IPMI pass-through via SMBus or NC-SI, WoL, PXE remote boot, SCSI boot, VLAN filtering	-4.8 W (Dual Port) -3.5 W (Single Port)	21 mA @ 3.3 V 51 mA @ 1.8 V 486 mA @ 1.2 V	0-55° C	1.0, 1.8, 3.3 V	JL82598EB	-
Intel® B2576EB	Dual-Port GbE Controller MAC/PHY/SerDes/SQ/III	25x25 mm 576-pin FCBGA	PCI Express* v2.0 (2.5 GT/s) x1/x2/x4	Intel® VO Acceleration Technology (Intel® QuickData Technology, MSI-X, RSS, direct cache access, checksum and segmentation offload, header splitting/replication, low latency interrupts, 160Rx/16Tx queues/ports, jumbo frames, virtual machine device queues (VMQ), PCI-SIG SR-IOV, Security (Pbae offload, LinkSec) <sup>1</sup>	Enterprise servers, blades, embedded systems	IPMI pass-through via SMBus or NC-SI, WoL, PXE remote boot, SCSI boot, VLAN filtering, IEEE 1588 (time sync capability)	-2.1 W (Copper) -7 W (SerDes)	15 mA @ 3.3 V 224 mA @ 1.8 V 243 mA @ 1.0 V	0-55° C	3.3, 1.8, 1.0 V	JL82576EB	B2575EB
Intel® B2575EB	Dual Port GbE Controller MAC/PHY/SerDes/SQ/III	25x25 mm 576-pin FCBGA	PCI Express* x1/x2/x4	Intel® VO Acceleration Technology 4Tx, 4Rx queues, message signaled interrupts, receive side scaling, direct cache access, low latency interrupt, header splitting and replication, virtual machine device queues	Enterprise servers, blades, embedded systems	IPMI pass-through via SMBus or NC-SI, WoL, PXE remote boot, ASF 2.0, SCSI boot, VLAN filtering	-2.4 W, -0.7 W (SerDes)	171 mA @ 3.3 V	0-70° C	1.0, 1.8, 3.3 V	HL82575EB	-
Intel® B2571EB Intel® B2572EI	Single Port GbE Controller MAC/PHY/SerDes/SQ/III	17x17 mm 256-pin FCBGA	PCI Express* x1/x2/x4	Intel® VO Acceleration Technology 2Tx, 2Rx queues, message signaled interrupts, receive side scaling, header splitting	Enterprise servers, blades, embedded systems	IPMI pass-through via SMBus or FML, WoL, PXE remote boot, ASF 2.0, SCSI boot, serial over LAN, VLAN filtering	-1.5 W, -0.7 W (SerDes) -2.8 W, -1.8 W (SerDes)	220 mA @ 3.3 V 226 mA @ 3.3 V	0-70° C 0-70° C	1.1, 1.8, 3.3 V	HL82572EI HL82571EB	-
Intel® B2574L Intel® B2574T <sup>1</sup>	Single-Port GbE Controller MAC/PHY	9x9 mm 64-pin QFN	PCIe 1.1 (2.5 Gb/s) x1	TCP segmentation offload, TCP, UDP, IPv4 checksum offload, interrupt moderation, VLAN support, jumbo frames, RSS, MSI, MSI-X	Server and embedded systems	IPMI pass-through via SMBus or NC-SI, WoL, PXE remote boot, SCSI boot, VLAN filtering	-702 mW (30, 1 Gb active)	188 mW (33 mW, WoL enabled, 100 Mbps)	0-85° C -40-85° C	3.3 V	WG82574L WG82574T	-
Intel® B2573EV Intel® B2573L	Single Port GbE Controller MAC/PHY	15x15 mm 196-pin TFBGA	PCI Express* x1	TCP segmentation offload, TCP, UDP, IPv4 checksum offload, interrupt moderation, jumbo frames	Enterprise clients, workstations, embedded systems	Intel® Active Management Technology, IPMI pass-through via SMBus, WoL, PXE remote boot, ASF 2.0	-1.3 W -1.2 W	11 mA @ 3.3 V 14 mA @ 3.3 V	0-70° C	1.2, 2.5, 3.3 V	RB82573E RB82573L	-
Intel® B2545OM Intel® B2546GB	Single Port GbE Controller Dual Port GbE Controller MAC/PHY/SerDes	21x21 mm 364-pin TFBGA 364-pin PBGA	PCI X 1.0 PCI/PCI-X* 3.3/6.6/13.3 MHz	TCP segmentation offload, large send offload, TCP, UDP, IPv4 checksum offload, interrupt moderation, jumbo frames	Enterprise servers, blades, embedded systems	IPMI pass-through via SMBus, WoL, PXE remote boot, ASF 2.0, VLAN filtering	-1.5 W -2.6 W, -1.5 W (SerDes)	125 mA @ 3.3 V 220 mA @ 3.3 V	0-70° C 0-55° C	1.5, 2.5, 3.3 V	RB2545OM FW82546GB	-
Intel® B2541PI Intel® B2541ER	Single Port GbE Controller MAC/PHY	15x15 mm 196-pin PBGA	PCI 2.3 3.3/6.6 MHz	TCP segmentation offload, TCP, UDP, IPv4 checksum offload	Enterprise clients, workstations, embedded systems	IPMI pass-through via SMBus, WoL, PXE remote boot, ASF 2.0	-1.0 W -	45 mA @ 3.3 V	0-70° C	1.2, 1.8, 3.3 V	GB82541PI GB82541ER	-
Intel® B2567LM <sup>1</sup>	Single-Port GbE PHY	8x8 mm 56-pin QFN	PCI Express*	Jumbo frames, RSS, on Intel ICH9M, ICH10 chipsets	Enterprise clients, consumer, embedded systems	Intel® Active Management Technology, WoL, PXE remote boot, ASF 2.0	-0.64 W	0.13 W	0-85° C	3.3 / 1.8 / 1.05 V	WG82567LM	-
Intel® B2566DM	Single Port GbE PHY	10x10 mm 81-pin FCMMP BGA	GLL on Intel ICH8, ICH9 chipsets	On Intel® ICH8, ICH9 chipsets	Enterprise clients, consumer, embedded systems	Intel® Active Management Technology, WoL, PXE remote boot, ASF 2.0	-1.2 W	29 mA @ 3.3 V	0-70° C	1.0, 1.8, 3.3 V	RU82566DM	-
Intel® B2564EB Intel® B2563EB	Single Port GbE PHY Dual Port GbE PHY	14x14 mm 100-pin TQFP	GLL on Intel® ESB2 chipset	Intel® VO Acceleration Technology on Intel® ESB2 chipset	Enterprise servers	On Intel® ESB2 chipset	-1.3 W -2.6 W	360 mA @ 3.3 V	0-60° C	1.2, 1.8, 3.3 V	HL82564EB HL82563EB	-
Intel® B2551OM Intel® B2551ER Intel® B2551T	Single Port Fast Ethernet Controller MAC/PHY	15x15 mm 196-pin BGA	PCI 2.3 33 MHz	TCP segmentation offload, TCP, UDP, IPv4 checksum offload	Consumer, embedded systems	IPMI pass-through via SMBus, WoL, PXE remote boot, ASF 1.0	0.61 W	0.05 W @ 3.3 V	0-85° C -40°-85° C	3.3 V	GB82551OM GB82551ER GB82551T	B2540M/EP B2541P/ER
Intel® B2562EZ Intel® B2562CX Intel® B2562CZ	Single Port Fast Ethernet PHY	15x15 mm 196-pin BGA	LI on Intel® ICH chipsets	On Intel® ICH chipsets	Enterprise clients, consumer, embedded systems	On Intel® ICH chipsets	0.3 W	0.05 W @ 3.3 V	0-85° C	3.3 V	GB82562EZ GB82562CX GB82562CZ	B2540M/EP B2541P/ER B2573E/L
Intel® B2562V	Single Port Fast Ethernet PHY	10x10 mm 81-pin FCMMP BGA	LI on Intel® ICH chipsets	On Intel® ICH chipsets	Enterprise clients, consumer, embedded systems	On Intel® ICH chipsets	0.3 W	0.05 W @ 3.3 V	0-70° C	3.3 V	PC82562V	B2566DM

All products are RoHS compliant. All products are compatible with all major operating systems. <sup>1</sup> 0-70° C with thermal management <sup>2</sup> Halogen-free <sup>3</sup> LinkSec available in 11H09