



Intel® 82576EB Gigabit Ethernet Controller

Summary Information

Code Name	Kawela
Product Family	Gigabit Ethernet Network Connection
Product Status	Launched
Launch Date	Available now
Mfg Avail	7+ Yrs
Halogen Free Available	✓
Intel® Stable Image Platform Program (Intel® SIPP)	✗
Package Size	25x25mm
Lithography	90 nm
Max TDP	2.8
TCASE	60°C
Number of Ports	Dual
Interface Type	PCIe v2.0 (2.5GT/s)
Temperature Range	0-60
I/OAT Version	N/A
Message Signal Interrupt Extension	✓
Intel® Virtualization Technologies Supported	VMDc(SR-IOV with mobility), VMDq, Intel® I/OAT
Network Controller Sideband Interface (NC-SI)	✓
Receive-side Scaling	✓
Fiber Channel over Ethernet (FCoE)	✗
Jumbo Frames	✓
MACSec (802.1AE)	✓
Support Under vPro	✗
Time Synchronization Protocol (802.1AS/IEEE1588)	✓

Links No Intel.com Links Available
Datasheet Download Datasheet
SLB7L 898304: PCN MDDS
SLAVZ 897983: PCN MDDS
Send feedback on PCN or MDDS links IntelQDMS@pcnalert.com

Ordering Information

Product Name	Socket	Step	TDP	Ordering Code	SPEC Code	7+ Mfg Avail	Halogen Free
Intel® 82576EB Gigabit Ethernet Controller, Dual Port, BGA, Tray	BGA576	A1	2.8 Watts	HL82576EB	SLB7L	✓	✓
Intel® 82576EB Gigabit Ethernet Controller, Dual Port, Pb-free 2LI, BGA, Tray	BGA576	A1	2.8 Watts	JL82576EB	SLAVZ	✗	✓

Sampling Information

Retired and Discontinued

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See www.intel.com/products/ht/hyperthreading_more.htm for more information including details on which processors support HT Technology.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in development.

Note: Prices subject to change without notice. Prices are for direct Intel customers in 1000-unit bulk quantities and, unless specified, represent the latest technology versions of the products. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/products/processor_number for details.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice.

Halogen Free implies the following:

Bromine and/or chlorine in materials that may be used during processing, but do not remain within the final product are not included in this definition. The halogens fluorine (F), iodine (I), and astatine (At) are not restricted by this standard.

"BFR/CFR and PVC-Free" Definition:

An article must meet all of the following requirements to be defined as "BFR/CFR and PVC-Free":

- All PCB laminates must meet Br and Cl requirements for low halogen as defined in IPC-4101B
- For components other than PCB laminates, all homogenous materials must contain < 900 ppm (0.09%) of Bromine [if the Bromine (Br) source is from BFRs] and < 900 ppm (0.09%) of Chlorine [if the Chlorine (Cl) source is from CFRs or PVC. Higher concentrations of Br and Cl are allowed in homogenous materials of components other than PCB laminates as long as their sources are not BFRs, CFRs, PVC.
- Although the elemental analysis for Br and Cl in homogeneous materials can be performed by any analytical method with sufficient sensitivity and selectivity, the presence or absence of BFRs, CFRs or PVC must be verified by any acceptable analytical techniques that allow for the unequivocal identification of the specific Br or Cl compounds, or by appropriate material declarations agreed to between customer and supplier.