



# **Intel® Ethernet Controller I350 Feature Software Support Summary**

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LAN Access Division (LAD)

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## Revisions

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Date	Revision	Description
3/23/2011	1.0	For SW Release 16.2.
5/6/2011	1.1	Correct issues.
6/21/2011	2.0	Developer release.
2/21/2011	2.1	Updated driver version information
3/12/2012	2.2	Updated Linux information.



**NOTE:**      *This page intentionally left blank.*



# 1. Features Supported by Software

The following two tables detail feature and operating system support provided by software driver release 16.81. Feature support for releases after this point are consistent.

**Table 1. Features**

Features	Windows* Driver name: e1r See Note. <sup>1</sup>	Linux* Driver name: igb See Note. <sup>1</sup>
Link Modes		
MDI(Copper) Device ID: 150E	1Gb/s full-duplex, 10/100 Mb/s full and half duplex.	1Gb/s full-duplex, 10/100 Mb/s full and half duplex.
1G SerDes BX/KX Device ID: 1510	Yes	Yes
1G SerDes Fiber Device ID: 150F	Yes	Yes
SGMII Device ID: 1511	Yes	Yes
Link Flow Control	Yes	Yes
Transmit Buffers	Max of 9728 Bytes	Max of 9728 Bytes
Receive Buffers	256, 512, 1024 and 2048	256, 512, 1024 and 2048
Checksum Offload	Yes (IPv4/ IPv6, TCP, UDP, TX/RX)	Yes (IPv4/ IPv6, TCP, UDP, TX/RX)
Large Send Offload (TSO)	Yes - Up to 64KB	Yes - Up to 64KB
SCTP receive and transmit checksum offload	Yes	Yes
Interrupt Moderation Rate (Values)	Yes (value)	Yes (value)
Message Signaled Interrupts (MSI)	Yes	Yes
Message Signaled Interrupts (MSI-X) Number of vectors	Yes 10 vectors	Yes 10 vectors
IPSec (Yes/No)	N/A	N/A
Header Data Split	Yes	Yes
DMA Coalescing	Yes	Yes
Jumbo Packet	Yes(9014 bytes)	Yes(9014 bytes)



Table 1. Features (Continued)

Receive Side Scaling	Yes	Yes
RSS Receive Queues	8	8
OS2BMC	Yes	Yes
Wake from S1 –S3	Yes	Yes
Wake from S5	Yes	Yes
DCB	N/A	N/A
Teaming	Yes	No (Supported by channel bonding in kernel)
IEEE 1588/802.1as and per packet time stamping	No	Yes (Requires Kernel support)
Virtualization (SR-IOV)	Yes	Yes
VMDq	Yes	Yes
FCoE	N/A	N/A
Receive Side Coalescing	TCP only, done in SW	TCP only, done in SW
EEE (Energy Efficient Ethernet)	Yes	Yes
Thermal sensor support	Yes	Yes
MacSec	No	No
Yes= Support provide in the driver		
No = No Support provided in the driver		
N/A = Not supported in silicon		

**Note:**

1. Yes = Support provided in the driver  
No = No Support provided in the driver  
N/A = Not supported by I350

**Table 2. Operating Systems**

Operating System	Kernel	IA32	X64	IPF <sup>1</sup>
Windows XP Professional SP3		Y	Y	n/a
Windows Vista SP2		Y	Y	n/a
Windows 7		Y	Y	n/a
Windows Server 2003 SP2		Y	Y	Y
Windows Server 2008 SP2		Y	Y	Y
Windows Server 2008 SP2 Core		Y	Y	n/a
Windows Server 2008 SP2 (w/ Hyper-V role)		n/a	Y*	n/a
Hyper-V Server 2008 SP2		n/a	Y*	n/a
Windows Server 2008 R2		n/a	Y	Y
Windows Server 2008 R2 Core		n/a	Y	Y
Windows Server 2008 R2 (w/ Hyper-V role)		n/a	Y*	n/a
Hyper-V Server 2008 R2		n/a	Y*	n/a
Linux Stable Kernel version 2.6/3.x	3.1	Y	Y	N/A
Linux RHEL 5.8	2.6.18-307.el5	Y	Y	Y
Linux RHEL 6.2	2.6.32.220.el6	Y	Y	N/A
Linux SLES 11 SP2	3.0.13-0.27	Y	Y	Y
Linux SLES 10 SP4	2.6.16.60-0.85.1	Y	Y	N/S
FreeBSD 9	9.0	Y	Y	N/A
UnixWare 7.1.4		Y	n/a	n/a
SCO OpenServer 5.0.7 and 6.0		Y	n/a	n/a
DOS NDIS 2		Y	n/a	n/a
DOS ODI		Y	n/a	n/a
EFI 1.1		N	n/a	Y
UEFI 2.1		N	Y	Y



**Table 2. Operating Systems (Continued)**

Vmware ESX 4.0 <sup>2</sup>		n/a	Y	n/a
Vmware ESX 4.1 <sup>2</sup>		n/a	Y	n/a

**Notes:**

1. Itanium® Product Family
2. VMware\* ESX drivers are not included on LAD SW Releases, they are only available from VMware's web site and they are released on a separate schedule.

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