

# RTX64 RT-TCP/IP Stack

## Supported Network Interface Cards

A listing of NIC drivers that are provided with RTX64 for use with the RT-TCP/IP Stack. Note that you can write your own custom drivers for NICs that are not included in this document.

## Legend



This Network Interface card (NIC) has been tested using RTX64. The card has been tested for both Internet Protocol version 4 (IPv4) and next generation Internet Protocol version 6 (IPv6).



This NIC has been tested using RTX64. The manufacturer has listed this chipset as End-Of-Life, and it will likely be deprecated in a future release of RTX64.



This NIC has not been tested, but based on its chipset it should work correctly with RTX64.



This NIC has not been tested, but based on its chipset it should work correctly with RTX64. The manufacturer has listed this chipset as End-Of-Life, and it will likely be deprecated in a future release of RTX64.



This NIC has been tested and confirmed not to work correctly with RTX64.





The device supports line-based interrupts only.

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**NOTE:** The RT-TCP/IP Stack and RTX64 Network Abstraction Layer (NAL) currently use different drivers. See the *RTX64 NAL Supported NICs* document for a list of NAL-supported NICs.


**NOTE:** All drivers support Link Status monitoring.

**NOTE:** All tested (  ,  ) drivers support Jumbo Packets except the Realtek RtRtl8168 driver.

**NOTE:** Windows uses the Device ID and Vendor ID when associating devices. The friendly name of a device in Windows may differ slightly from the corresponding name provided in this document.






# Broadcom












Driver RtBCM supports:












Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x14E4	0x1682	Broadcom NetXtreme 57762 Gigabit Ethernet	RTX64 2014 with Service Pack 2	












# Intel






Driver RtlPCH supports:

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x10BA	Intel 80003ES2 Ethernet Controller Copper SPT	Update 1 for RTX64 3.0	
0x8086	0x10BB	Intel 80003ES2 Ethernet Controller Serdes SPT	Update 1 for RTX64 3.0	
0x8086	0x1096	Intel 80003ES2 Ethernet Controller Copper DPT	Update 1 for RTX64 3.0	
0x8086	0x1098	Intel 80003ES2 Ethernet Controller Serdes DPT	Update 1 for RTX64 3.0	
0x8086	0x1049	Intel ICH8 IGP M AMT Ethernet Controller	Update 1 for RTX64 3.0	

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x104A	Intel ICH8 IGP AMT Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x104C	Intel ICH8 IFE Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10C4	Intel ICH8 IFE GT Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10C5	Intel ICH8 IFE G Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x104D	Intel ICH8 IGP M Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x1501	Intel ICH8 82567 V3 Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10F5	Intel ICH9 IGP M AMT Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10BD	Intel ICH9 IGP AMT Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x294C	Intel ICH9 IGP C Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10BF	Intel ICH9 IGP M Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10CB	Intel ICH9 IGP M V Ethernet Controller	Update 1 for RTX64 3.0	


<b>Vendor ID</b>	<b>Device ID</b>	<b>Device Description</b>	<b>Minimum RTX64 Version</b>	<b>Status</b>
0x8086	0x10C0	Intel ICH9 IFE Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10C3	Intel ICH9 IFE GT Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x 10C2	Intel ICH9 IFE G Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10E5	Intel ICH9 BM Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10F6	Intel 82574LA Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10CC	Intel ICH10 R BM LM Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10CD	Intel ICH10 R BM LF Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10CE	Intel ICH10 R BM V Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10DE	Intel ICH10 D BM LM Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10DF	Intel ICH10 D BM LF Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x1525	Intel ICH10 D BM V Ethernet Controller	Update 1 for RTX64 3.0	

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x10EA	Intel PCH M HV LM Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10EB	Intel PCH M HV LC Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10EF	Intel PCH D HV DM Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10F0	Intel PCH D HV DC Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x156F	Intel PCH SPT I219 LM Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x1570	Intel PCH SPT I219 V Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x15B7	Intel PCH SPT I219 LM2 Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x15B8	Intel PCH SPT I219 V2 Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x15B9	Intel PCH SPT I219 LM3 Ethernet Controller	Update 1 for RTX64 3.0	
0x8086	0x10D9	Intel 82571EB Ethernet Controller Serdes Dual	Update 1 for RTX64 3.0	
0x8086	0X10DA	Intel 82571EB Ethernet Controller Serdes Quad	Update 1 for RTX64 3.0	











Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0X10BC	Intel 82571EB Ethernet Controller Copper Quad LP	Update 1 for RTX64 3.0	
0x8086	0X10A5	Intel 82571EB Ethernet Controller Fiber Quad	Update 1 for RTX64 3.0	
0x8086	0X10D5	Intel 82571PT Ethernet Controller Copper Quad	Update 1 for RTX64 3.0	
0x8086	0x1502	Intel® 82579 Ethernet Controller Integrated with the Intel C202 PCH, C216 PCH, or C220 PCH. <b>NOTE:</b> This controller is also supported by the RtE1000 driver. <b>NOTE:</b> This controller does not work correctly on systems with the Intel C200 PCH.	RTX64 3.2	
0x8086	0x1503	Intel® 82579V Gigabit Network Adapter <b>NOTE:</b> This controller is also supported by the RtE1000 driver.	RTX64 3.2	

**Driver Rtl10GB supports:**












**NOTE:** Support for this driver was added in RTX64 3.0, but it should be compatible with all versions of RTX64 2014 as well.

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x10C6	Intel® 82598 AF DUAL PORT 10GB Network Connection	RTX64 2014	









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<b>Vendor ID</b>	<b>Device ID</b>	<b>Device Description</b>	<b>Minimum RTX64 Version</b>	<b>Status</b>
0x8086	0x10C7	Intel® 82598 AF SINGLE PORT 10GB Network Connection	RTX64 2014	
0x8086	0x10DD	Intel® 82598 EB CX4 10GB Network Connection	RTX64 2014	
0x8086	0x10C8	Intel® 82598 AT 10GB Network Connection	RTX64 2014	
0x8086	0x150B	Intel® 82598 AT2 10GB Network Connection	RTX64 2014	
0x8086	0x10B6	Intel® 82598 10GB Network Connection	RTX64 2014	
0x8086	0x10F1	Intel® 82598 DA DUAL PORT 10GB Network Connection	RTX64 2014	
0x8086	0x10EC	Intel® 82598 CX4 DUAL PORT 10GB Network Connection	RTX64 2014	
0x8086	0x10F4	Intel® 82598 EB XF LR 10GB Network Connection	RTX64 2014	
0x8086	0x10E1	Intel® 82598 SR DUAL PORT EM 10GB Network Connection	RTX64 2014	
0x8086	0x10DB	Intel® 82598 EB SFP LOM 10GB Network Connection	RTX64 2014	




<b>Vendor ID</b>	<b>Device ID</b>	<b>Device Description</b>	<b>Minimum RTX64 Version</b>	<b>Status</b>
0x8086	0x10F7	Intel® 82599 KX4 10GB Network Connection	RTX64 2014	
0x8086	0x1514	Intel® 82599 KX4 MEZZ 10GB Network Connection	RTX64 2014	
0x8086	0x10FB	Intel® 82599 SFP 10GB Network Connection	RTX64 2014	
0x8086	0x10FC	Intel® 82599 XAUI LOM 10GB Network Connection	RTX64 2014	
0x8086	0x10F9	Intel® 82599 CX4 10GB Network Connection	RTX64 2014	
0x8086	0x151C	Intel® 82599 T3 LOM 10GB Network Connection	RTX64 2014	
0x8086	0x10F8	Intel® 82599 COMBO BACKPLANE 10GB Network Connection	RTX64 2014	
0x8086	0x152A	Intel® 82599 BACKPLANE FCOE 10GB Network Connection	RTX64 2014	
0x8086	0x154D	Intel® 82599 SFP SF2 10GB Network Connection	RTX64 2014	
0x8086	0x1529	Intel® 82599 SFP FCOE 10GB Network Connection	RTX64 2014	
0x8086	0x1557	Intel® 82599 EN SFP 10GB Network Connection	RTX64 2014	

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0x8086	0x154A	Intel® 82599 SFP SF QP 10GB Network Connection	RTX64 2014	
0x8086	0x1558	Intel® 82599 QSFP SF QP 10GB Network Connection	RTX64 2014	
0x8086	0x1528	Intel® X540 T 10GB Network Connection	RTX64 2014	
0x8086	0x1560	Intel® X540 T1 10GB Network Connection	RTX64 2014	
0x8086	0x1563	Intel® X550 T 10GB Network Connection	RTX64 2014	
0x8086	0x15AB	Intel® X550 EM X KR 10GB Network Connection	RTX64 2014	
0x8086	0x15AA	Intel® X550 EM X KX4 10GB Network Connection	RTX64 2014	
0x8086	0x15AD	Intel® X550 EM X 10G T 10GB Network Connection	RTX64 2014	







### Driver RtlGB supports:

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x157B	Intel® I210 Flash-less Copper-only Ethernet Controller	RTX64 3.0	


Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x1533	Intel® I210 T1 Copper-only Ethernet Controller	RTX64 2013 with Service Pack 1	✓
0x8086	0x1521	Intel® I350 Quad/Dual PCIe Copper Ethernet Controller <b>NOTE:</b> Although MSI-X is supported, it does not work correctly with this device. Use MSI instead.	RTX64 2013 with Service Pack 1	✓
0x8086	0x1523	Intel® I350 Quad/Dual PCIe 1000BASE-KX/BX Ethernet Controller <b>NOTE:</b> Although MSI-X is supported, it does not work correctly with this device. Use MSI instead.	RTX64 2013 with Service Pack 1 Update 1	⚠
0x8086	0x1539	Intel® I211-AT Ethernet Controller	RTX64 2014	✓





Driver Rtl217 supports:

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x153A	Intel® I217LM PHY 1000BASE with C220 Ethernet Controller	RTX64 2014 with Service Pack 2	✓
0x8086	0x153B	Intel® I217V PHY 1000BASE with C220 Ethernet Controller	RTX64 2014 with Service Pack 2	✓





Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x155A	Intel® I218LM PHY 1000BASE with Ethernet Controller	RTX64 2014 with Service Pack 2	
0x8086	0x1559	Intel® I218V PHY 1000BASE with Ethernet Controller	RTX64 2014 with Service Pack 2	
0x8086	0x15A3	Intel® I218V PHY 1000BASE with Ethernet Controller	RTX64 2014 with Service Pack 2	
0x8086	0x15A2	Intel® I218LM PHY 1000BASE with Ethernet Controller	RTX64 2014 with Service Pack 2	
0x8086	0x15A1	Intel® I218V PHY 1000BASE with Ethernet Controller	RTX64 2014 with Service Pack 2	
0x8086	0x15A0	Intel® I218LM PHY 1000BASE with Ethernet Controller	RTX64 2014 with Service Pack 2	


Driver Rt8257x supports:

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x1526	Intel® Gigabit ET2 Quad Port Server Adapter	RTX64 2014 with Service Pack 2	

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x10A7	Intel® 82575EB Gigabit Ethernet Controller	RTX64 2013	
0x8086	0x10c9	Intel® 82576 Gigabit ET/ET2/EF Server Adapter	RTX64 2013	
0x8086	0x10e6	Intel® 82576 Gigabit ET/ET2/EF Server Adapter	RTX64 2013	
0x8086	0x10e7	Intel® 82576 Gigabit ET/ET2/EF Server Adapter	RTX64 2013	




Driver Rt82580 supports:

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x150E	Intel® 82580 Quad Port 10/100/1000 Mb/s Ethernet Controller	RTX64 2013	
0x8086	0x150F	Intel® 82580 Quad port 10/100/1000 Mb/s Ethernet Controller - Fiber	RTX64 2013	
0x8086	0x1510	Intel 82580 Quad port 10/100/1000 Mb/s Ethernet controller - 1000BASEKX/1000BASEBX Backplane	RTX64 2013	
0x8086	0x1511	Intel® 82580 Quad Port 10/100/1000 Mb/s Ethernet Controller - External SGMII PHY	RTX64 2013	










Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x1516	Intel® 82580 Dual port 10/100/1000 Mb/s Ethernet Controller - Copper	RTX64 2013	











Driver RtE1000 supports:

**NOTE:** The RtE1000 driver does not support shared line-based interrupts.










Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x10D3	Matrox Concord GE (customized Intel® 82574) Ethernet Controller	RTX64 3.5	
0x8086	0x1502	Intel® 82579 Ethernet Controller Integrated with the Intel C202 PCH, C216 PCH, or C220 PCH. <b>NOTE:</b> This controller is also supported by the RtIPCH driver (RTX64 3.2 and above). <b>NOTE:</b> This controller does not work correctly on systems with the Intel C200 PCH.	RTX64 2014	
0x8086	0x1503	Intel® 82579V Gigabit Network Adapter <b>NOTE:</b> This controller is also supported by the RtIPCH driver (RTX64 3.2 and above).	RTX64 2014	

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Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x100E	Intel® 82540EM Pro 1000 MT Desktop <b>NOTE:</b> Although MSI/MSI-X is supported, it does not work correctly. Use the line-based interrupt type instead.	RTX64 2013	
0x8086	0x1010	Intel® PRO/1000 MT Dual Port Gigabit Ethernet Adapter <b>NOTE:</b> Although MSI/MSI-X is supported, it does not work correctly. Use the line-based interrupt type instead.	RTX64 2013	
0x8086	0x107C	Intel® 82541GI/82541PI LF Pro 1000 GT Desktop $\beta$	RTX64 2013	
0x8086	0x107D	Intel® 82572 PT Gigabit Ethernet Controller	RTX64 2013	
0x8086	0x109A	Intel® PRO/1000 PL Network Adapter	RTX64 2013	
0x8086	0x104B	Intel® 82566 DC Gigabit Ethernet Controller	RTX64 2013	
0x8086	0x10D3	Intel® 82574L Gigabit Ethernet Controller	RTX64 2013	
0x8086	0x1000	Intel® 82542 Gigabit Ethernet Controller	RTX64 2013	
0x8086	0x1004	Intel® 82543GC Gigabit Ethernet Controller Copper	RTX64 2013	


Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x8086	0x1003	Intel® 82543PC Ethernet Controller Copper	RTX64 2013	
0x8086	0x100D	Intel® 82544GC LOM Gigabit Ethernet Controller	RTX64 2013	
0x8086	0x1015	Intel® 82540EM LOM Gigabit Ethernet Controller PRO/1000 MT Mobile Connection	RTX64 2013	
0x8086	0x1016	Intel® 82540EP LOM Gigabit Ethernet Controller	RTX64 2013	
0x8086	0x1017	Intel® 82540EP Gigabit Ethernet Controller LOM	RTX64 2013	
0x8086	0x101E	Intel® 82540EP LP Gigabit Ethernet Controller Mobile	RTX64 2013	
0x8086	0x100F	Intel® 82545EM Copper Gigabit Ethernet Controller PRO/1000 MT Gigabit Ethernet	RTX64 2013	
0x8086	0x1077	Intel® 82541GI/82541EI Mobile Gigabit Ethernet Controller	RTX64 2013	
0x8086	0x1051	Intel® PRO/100 VE Network Connection	RTX64 2013	
0x8086	0x108B	Intel® PRO/1000 PM Network Connection	RTX64 2013	







<b>Vendor ID</b>	<b>Device ID</b>	<b>Device Description</b>	<b>Minimum RTX64 Version</b>	<b>Status</b>
0x8086	0x108C	Intel® PRO/1000 PM Network Connection	RTX64 2013	
0x8086	0x105E	Intel® PRO/1000 PT Dual Port Ethernet Controller	RTX64 2013	
0x8086	0x105F	Intel® PRO/1000 PF Dual Port Server Adapter	RTX64 3.0	
0x8086	0x1060	Intel® PRO/1000 PB Dual Port Server Connection	RTX64 2013	
0x8086	0x107E	Intel® PRO/1000 PF Network Connection	RTX64 2013	
0x8086	0x107F	Intel® PRO/1000 PB Server Connection	RTX64 2013	
0x8086	0x10B9	Intel® PRO/1000 PT Desktop Adapter	RTX64 2013	
0x8086	0x10a4	Intel® PRO/1000 PT Quad Port Server Adapter	RTX64 2013	
0x8086	0x150C	Intel® 82583 Gigabit Ethernet Controller	RTX64 2013	

# Realtek

Driver RtRtl8168 supports:

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
0x1186	0x4300	D-Link DGE-528(T) Gigabit Ethernet Adapter	RTX64 2014	
0x1186	0x4302	D-Link DGE-530(T) Gigabit Ethernet Adapter	RTX64 2014	
0x10EC	0x8139	Realtek 8139C+ 10/100BaseTX	RTX64 2014	
0x10EC	0x8136	Realtek 810xE PCIe 10/100baseTX	RTX64 2014	
0x10EC	0x8168	Realtek 8168/8111 B/C/CP/D/DP/E/F/G PCIe Gigabit Ethernet  <b>NOTE:</b> Only these hardware IDs were tested: <ul style="list-style-type: none"> <li>• PCI\VEN_10EC&amp;DEV_8168&amp;SUBSYS_83A31043&amp;REV_03</li> <li>• PCI\VEN_10EC&amp;DEV_8168&amp;SUBSYS_816810EC&amp;REV_03</li> <li>• PCI\VEN_10EC&amp;DEV_8168&amp;SUBSYS_816810EC&amp;REV_02</li> <li>• PCI\VEN_10EC&amp;DEV_8168&amp;SUBSYS_2A90103C&amp;REV_03</li> <li>• PCI\VEN_10EC&amp;DEV_8168&amp;SUBSYS_012310EC&amp;REV_02</li> </ul>	 <a href="#">See Device Description</a>	

Vendor ID	Device ID	Device Description	Minimum RTX64 Version	Status
<p><b>NOTE:</b> Only these chipsets were tested:</p> <ul style="list-style-type: none"> <li>• Realtek 8168C Spin 2</li> <li>• Realtek 8168C</li> <li>• Realtek 8168CP</li> <li>• Realtek 8168D</li> </ul>				
0x10EC	0x8168	Realtek 8168E-VL/8168F/8411	RTX64 2014	<b>X</b>
0x10EC	0x8169	Realtek 8169/8169S/8169SB(L)/8110S/8110SB(L) Gigabit Ethernet	RTX64 2014	
0x10EC	0x8167	Realtek 8169SC/8110SC Single-chip Gigabit Ethernet	RTX64 2014	
0x1259	0xC107	Corega CG-LAPCIGT (RTL8169S) Gigabit Ethernet	RTX64 2014	
0x1737	0x1032	Linksys EG1032 (RTL8169S) Gigabit Ethernet	RTX64 2014	
0x16EC	0x0116	US Robotics 997902 (RTL8169S) Gigabit Ethernet	RTX64 2014	