







RTX64

Supported Network Interface Cards

The *Supported Network Interface Cards* guide lists the 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. |


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 |  |









| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|------------------|------------------|---|------------------------------|---|
| 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 |  |
| 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 |  |










| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|------------------|------------------|---|------------------------------|---|
| 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 |  |
| 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 |  |










| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|-----------|-----------|--|------------------------|---|
| 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 |  |
| 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 |  |





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 |  |
| 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 |  |

| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|------------------|------------------|--|------------------------------|---|
| 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 |  |
| 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 |  |


| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|-----------|-----------|--|-----------------------|---|
| 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 |  |
| 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 |  |


| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|-----------|-----------|--|-----------------------|---|
| 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 |  |
| 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 | RTX64 2013 with Service Pack 1 |  |




NOTE: Although MSI-X is supported, it does not work correctly with this device. Use MSI instead.

| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|--|-----------|---|---|---|
| 0x8086 | 0x1523 | Intel® I350 Quad/Dual PCIe 1000BASE-KX/BX Ethernet Controller | RTX64 2013 with Service Pack 1 Update 1 |  |
| <p>NOTE: Although MSI-X is supported, it does not work correctly with this device. Use MSI instead.</p> | | | | |






| | | | | |
|--------|--------|------------------------------------|------------|---|
| 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 |  |
| 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 |  |

| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|-----------|-----------|---|--------------------------------|---|
| 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 |  |
| 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 |  |
| 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 | 0x1502 | Intel® 82579 Ethernet Controller Integrated with the Intel C202 PCH, C216 PCH, or C220 PCH. | RTX64 2014 |  |

NOTE: This controller does not work correctly on

| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|---|-----------|---|-----------------------|---|
| systems with the Intel C200 PCH. | | | | |
| 0x8086 | 0x1503 | Intel® 82579V Gigabit Network Adapter | RTX64 2014 |  |
| 0x8086 | 0x100E | Intel® 82540EM Pro 1000 MT Desktop NOTE: 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 NOTE: 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 β | 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 |  |




| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|-----------|-----------|--|-----------------------|---|
| 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 |  |
| 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 |  |



| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|-----------|-----------|--|-----------------------|---|
| 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 |  |
| 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 |  |

| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|-----------|-----------|---|-----------------------|---|
| 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 |  |






| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|-----------|-----------|---|-----------------------|--|
| 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 | RTX64 2013 |  See Device Description |

NOTE: Only these hardware IDs were tested:

- PCI\VEN_10EC&DEV_8168&S UBSYS_83A31043&REV_03
- PCI\VEN_10EC&DEV_8168&S UBSYS_816810EC&REV_03
- PCI\VEN_10EC&DEV_8168&S UBSYS_816810EC&REV_02
- PCI\VEN_10EC&DEV_8168&S UBSYS_2A90103C&REV_03
- PCI\VEN_10EC&DEV_8168&S UBSYS_012310EC&REV_02

NOTE: Only these chipsets were tested:

- Realtek 8168C Spin 2
- Realtek 8168C
- Realtek 8168CP
- Realtek 8168D

| Vendor ID | Device ID | Device Description | Minimum RTX64 Version | Status |
|-----------|-----------|---|-----------------------|---|
| 0x10EC | 0x8168 | Realtek 8168E-VL/8168F/8411 | RTX64 2014 | X |
| 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 |  |