

RTX Supported Network Interface Cards

This document lists the NIC drivers that are provided with RTX 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 RTX. 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 RTX. The manufacturer has listed this chipset as End-Of-Life, and it will likely be deprecated in a future release of RTX.



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



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This NIC has been tested, but it does not work correctly with RTX.



Supports Message Signal Interrupt (MSI) configuration



Supports Message Signal Interrupt eXtended (MSI-x) configuration



MSI supported but does not work correctly – RTX driver uses line based interrupts


§ Supports jumbo frames (note some versions of the 82573 may not)

« Not available

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.






AMD

Driver RtAmd79C97 supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|--|------------------------|---|
| 0x1022 | 0x2000 | AMD 79C97i AMD PCNET Family PCI Ethernet Adapter | RTX 5.5 and later |  |

Digital Equipment Corporation

Driver RtDec21x4x supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-------------------|-----------|---|------------------------|---|
| 0x1011, 0x11AD | 0x0009 | DC21140 Digital DE500 PCI Fast Ethernet Controller D-Link DFE-530TX + | RTX 5.5 and later |  |
| 0x1011, 0x11AD | 0x0014 | DC21041 Tulip Plus Ethernet Adapter | RTX 5.5 and later |  |
| 0x1011, 0x11AD | 0x0019 | DC21142 PCI/CardBus 10/100 Mbit Ethernet Ctr | RTX 5.5 and later |  |
| 0x1011, 0x11AD | 0x0002 | NGMC169B 10/100 Ethernet (NetGear FA310TX) (k82c168) | RTX 5.5 and later |  |
| 0x1011, 0x11AD | 0xC115 | LC82C115 PNIC II PCI MAC/PHY LNE100TX Dual Fast Ethernet Adapter | RTX 5.5 and later |  |

HP

Driver Rt3c905 supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|--|------------------------|--------|
| 0x10B7 | 0x9055 | 3c905B-TX - 3com Fast Etherlink XL PCI 3C905x | RTX 5.5 and later | ✓ |
| 0x10B7 | 0x9200 | 3c905C-TX - 3com Fast Etherlink XL PCI 3C905x | RTX 5.5 and later | ✓ |

Intel

Driver RtIGB supports:




| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|---------------------------------|------------------------|--------|
| 0x8086 | 0x1533 | I210 T1 Ethernet Server Adapter | RTX 2012 Update 1 | ✓ |

Driver Rt8257x supports:





| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|---|------------------------|--------|
| 0x8086 | 0x10c9 | 82576 Gigabit ET Dual Port Server Adapter † ± § | RTX 2011 with SP1 | ✓ |
| 0x8086 | 0x10e6 | 82576 Gigabit ET2 Quad Port Server Adapter † ± § | RTX 2011 with SP1 | ✓ |
| 0x8086 | 0x10e7 | 82576 Intel Gigabit EF Dual Port Server Adapter † ± § | RTX 2011 with SP1 | ✓ |
| 0x8086 | 0x10A7 | 82575EB Gigabit Ethernet Controller † ± § | RTX 8.1.2 Update 5 | ⚠ |

Driver Rt82580 supports:









| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|--|------------------------|--------|
| 0x8086 | 0x150e | 82580 Intel Ethernet Server Adapter 1340 † ± § | RTX 2011 with SP1 | ✓ |
| 0x8086 | 0x150f | 82580 Gigabit Fiber Network Connection « | RTX 2011 with SP1 | ⚠ |









| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|--------------------------------------|------------------------|---|
| 0x8086 | 0x1510 | 82580 Gigabit Backplane Connection « | RTX 2011 with SP1 |  |
| 0x8086 | 0x1511 | 82580 Gigabit SFP Connection « | RTX 2011 with SP1 |  |
| 0x8086 | 0x1516 | 82580 Gigabit Network Connection « | RTX 2011 with SP1 |  |








Driver RtE1000 supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|--|------------------------|---|
| 0x8086 | 0x150C | 82583 Gigabit Ethernet Controller | RTX 2012 |  |
| 0x8086 | 0x10a4 | 82571 Gigabit PRO/1000PT Quad Port LP Server Adapter † | RTX 2011 with SP1 |  |
| 0x8086 | 0x10D3 | Intel® 82574L Gigabit Ethernet Controller † ± § | RTX 8.1.2 and later |  |
| 0x8086 | 0x104B | Intel® 82566 DC Gigabit Ethernet Controller † | RTX 8.0 and later |  |

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|--|------------------------|--------|
| 0x8086 | 0x105E | Intel® 82571 PRO/1000 PT Dual Port Network Connection Gigabit Ethernet Controller + § | RTX 8.0 and later | ✓ |
| 0x8086 | 0x107C | 82541GI LF Intel Pro 1000 GT Desktop 82541PI § | RTX 7.1 and later | ✓ |
| 0x8086 | 0x107D | Intel® 82572 PT Gigabit Ethernet Controller + § | RTX 7.1 and later | ✓ |
| 0x8086 | 0x109A | 82573L Intel Motherboard D975XBX Intel PRO/1000 PL Network Adaptor Found on IBM ThinkPads T60s and X60s + § | RTX 7.1 and later | ✓ |
| 0x8086 | 0x1018 | 82541EI MOBILE Intel PRO/1000 MT Mobile connection | RTX 7.1 and later | ⚠ |
| 0x8086 | 0x1077 | 82541GI MOBILE Gigabit Ethernet Controller 82541EI | RTX 7.1 and later | ⚠ |
| 0x8086 | 0x1019 | 82547EI Gigabit Ethernet Controller (LOM) PRO/1000 CT Network Connection | RTX 7.1 and later | ⚠ |





| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|------------------|------------------|--|-------------------------------|---|
| 0x8086 | 0x1051 | 82801EB/ER PRO/100 VE Network Connection | RTX 7.1 and later |  |
| 0x8086 | 0x108B | 82573E (PC82573V) Intel network controller (PCIe Gigabit Ethernet) | RTX 7.1 and later |  |
| 0x8086 | 0x108C | 82573E IAMT | RTX 7.1 and later |  |
| 0x8086 | 0x105E | 82571EB COPPER | RTX 7.1 and later |  |
| 0x8086 | 0x105F | Intel® PRO/1000 PF Dual Port Server Adapter | RTX 7.1 and later |  |
| 0x8086 | 0x1060 | 82571EB SERDES | RTX 7.1 and later |  |
| 0x8086 | 0x107D | 82572EI Gigabit Ethernet Controller | RTX 7.1 and later |  |
| 0x8086 | 0x107E | 82571EI FIBER | RTX 7.1 and later |  |

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|---|------------------------|---|
| 0x8086 | 0x107F | 82571EI SERDES | RTX 7.1 and later |  |
| 0x8086 | 0x10B9 | 82571EI | RTX 7.1 and later |  |
| 0x8086 | 0x1000 | 82542 Gigabit Ethernet Controller | RTX 6.5.1 and later |  |
| 0x8086 | 0x1004 | 82543GC Gigabit Ethernet controller (COPPER) | RTX 6.5.1 and later |  |
| 0x8086 | 0x1003 | 82543PC (COPPER) | RTX 6.5.1 and later |  |
| 0x8086 | 0x100D | 82544GC LOM Gigabit Ethernet Controller (LOM), mostly found on motherboard | RTX 6.5.1 and later |  |
| 0x8086 | 0x1015 | 82540EM LOM Gigabit Ethernet Controller (LOM), mostly found on motherboard PRO/1000 MT Mobile Connection | RTX 6.5.1 and later |  |
| 0x8086 | 0x1016 | 82540EP LOM Gigabit Ethernet Controller (LOM), mostly found on motherboard | RTX 6.5.1 and later |  |

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|--|------------------------|---|
| 0x8086 | 0x1017 | 82540EP Gigabit Ethernet Controller (LOM), mostly found on motherboard | RTX 6.5.1 and later |  |
| 0x8086 | 0x101E | 82540EP LP Gigabit Ethernet Controller (Mobile), can be found on IBM T42 Laptop | RTX 6.5.1 and later |  |
| 0x8086 | 0x100F | 82545EM COPPER Gigabit Ethernet Controller (copper) Intel® PRO/1000 MT Gigabit Ethernet Adapter | RTX 6.5.1 and later |  |
| 0x8086 | 0x100E | 82540EM Intel® Pro 1000 MT Desktop * § | RTX 6.5 and later |  |
| 0x8086 | 0x1026 | 82545GM COPPER Gigabit Ethernet Controller. Intel® PRO/1000 MT Server Adapter § | RTX 6.5 and later |  |
| 0x8086 | 0x1010 | 82546EB COPPER Dual Port Gigabit Ethernet Controller (Copper) Intel® PRO/1000 MT Dual Port Gigabit Ethernet Adapter § | RTX 6.5 and later |  |
| 0x8086 | 0x104A | Intel® 82566 DM Gigabit Ethernet Controller | Not supported |  |


| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|---|------------------------|----------|
| 0x8086 | 0x1049 | Intel® 82566 MM Gigabit Ethernet Controller | Not supported | X |

Driver Rt8255x supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|---|------------------------|---|
| 0x8086 | 0x1030 | 81559 (825593) | RTX 7.1 and later |  |
| 0x8086 | 0x2449 | 82562 (82559ER) Integrated 10Base-T/100Base-TX Ethernet Controller | RTX 7.1 and later |  |
| 0x8086 | 0x1229 | 82557/8/9/0/1 Intel PRO/100 S Server Adapter (82550EY) Same Device ID as 82558 | RTX 5.5 and later |  |
| 0x8086 | 0x1209 | 82559 ER (8255xER/IT) Intel Fast Ethernet Controller | RTX 5.5 and later |  |




Marvell

Driver RtMarvell88Ex supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|---|-----------------------------|---|
| 0x11AB | 0x4362 | Marvell Yukon 88E8053 based Ethernet Controller | RTX 2009 with SP2 and later |  |





National Semiconductor



Driver RtNs83815 supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|---|------------------------|---|
| 0x100B | 0x0022 | Ns83820 DP83820 ovislink GE2000N Gigabit PCI Adapter | RTX 7.1 and later |  |
| 0x100B | 0x0020 | Ns83815 DP83815 Netgear FA311 – rev C1 | RTX 5.5 and later |  |
| 0x100B | 0x0020 | Ns83816 DP83816 Soekris Engineering lan1621 Two port 10/100 Mbit PCI Ethernet board | RTX 5.5 and later |  |

Realtek


Driver RtRtl81x9 supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|--|-----------|--|------------------------|---|
| 0x10EC realtek, 0x1211 Generic, 0x1113 SMC, 0x1186 D-link | 0x8169 | GigaFast GE1000-AXP 8169 | RTX 7.1 and later |  |
| 0x10EC realtek, 0x1211 Generic, 0x1113 SMC, 0x1186 D-link | 0x8139 | 8139 8100 8169 8110 GigaFast EE110-AXP, 8139(c) (non plus) D-Link DFE-530TX + | RTX 5.5 and later |  |
| 0x10EC realtek, 0x1211 Generic, 0x1113 SMC, 0x1183 D-link | 0x8129 | RTL8129 10/100 Fast Ethernet Controller | RTX 5.5 and later |  |
| 0x10EC realtek, 0x1211 Generic, 0x1113 SMC, 0x1183 D-link | 0x1300 | D-Link 530TX + | RTX 5.5 and later |  |

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|--|-----------|--------------------|------------------------|---|
| 0x10EC realtek, 0x1211 Generic, 0x1113 SMC, 0x1183 D-link | 0x4300 | D-Link DGE-528T | RTX 5.5 and later |  |
| 0x10EC realtek, 0x1211 Generic, 0x1113 SMC, 0x1183 D-link | 0x1211 | EN5038a1 | RTX 5.5 and later |  |




Driver RtRtl8168 supports:

NOTE: Some users have experienced poor performance with the RTL8168/8111 controller, as well as issues transmitting and receiving data.

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|----------------|-----------|--|-----------------------------|---|
| 0x10EC realtek | 0x8168 | Realtek PCIe Gigabit Ethernet Family Controller ⁺ _± Realtek 8168 Ethernet Controller RTL8168/8111 ⁺ RTL8168B/8111B ⁺ RTL8168C/8111C/8111CP/8111D(L) ⁺ _± RTL8168E/8111E/8111F ⁺ _± RTL8111DP ⁺ _± | RTX 2011 with SP1 and later |  |


VIA Technologies

Driver Rt6105via supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|-----------|---|------------------------|---|
| 0x1106 | 0x3106 | 6105LOM Rhine III PCI Fast Ethernet Controller | RTX 7.1 and later |  |
| 0x1106 | 0x3065 | 6102 Rhine II D-Link DFE-530TX, Rhine II PCI Fast Ethernet Controller | RTX 7.1 and later |  |
| 0x1106 | 0x6100 | 86C100A Rhine PCI Fast SATA Ethernet Controller | RTX 7.1 and later |  |

Other

Driver RtNE2k supports:

| Vendor ID | Device ID | Device Description | RTX Products Supported | Status |
|-----------|---------------------------------------|--------------------|------------------------|---|
| | ISAPNP\AXE2 201 - NE2000 ISAPNP | ISA card NEC 2000 | RTX 5.5 and later |  |