

Contrail Networking NIC Support Matrix Releases 21xx

| Name of NIC | | Contrail Networking Release | 21.4 | 21.3 |
|-------------|--|---|-------|---------|
| | | DPDK Release | 22.11 | 19.11.0 |
| Intel | E810 | Kernel vRouter | x | x |
| | | DPDK vRouter | OK | x |
| | | SRIOV - vRouter bypass w/ vRouter coexist. | x | x |
| Intel | 82599, X510, X710, XXV710, XL710 | Kernel vRouter | OK | OK |
| | | DPDK vRouter | OK | OK |
| | | SRIOV - vRouter bypass w/ vRouter coexist. | OK | OK |
| Broadcom | BCM57414-25G | Kernel vRouter | OK | OK |
| | | DPDK vRouter | ? | ? |
| | | SRIOV - vRouter bypass w/ vRouter coexist. | ? | ? |
| Mellanox | Connect X4 | Kernel vRouter | OK | OK |
| | | DPDK vRouter | OK | OK |
| | | SRIOV - vRouter bypass | OK | OK |
| | Connect X5 | Kernel vRouter | OK | OK |
| | | DPDK vRouter | OK | OK |
| | | SRIOV - vRouter bypass | OK | OK |
| | | SmartNIC - DPDK vRouter accel. (ASAP) | x | x |
| | | SmartNIC - VirtIO + vRouter offload. | x | x |
| | | SmartNIC - SR-IOV + kernel vRouter offload. | x | x |
| | | SmartNIC - SR-IOV + DPDK vRouter offload | x | x |
| | Connect X6 | NVIDIA (starting from Release 21.4.L3) | OK | x |
| | Agilio CX 2x10GE, 2x25GE, 1x40GE, 2x40GE | Kernel vRouter (coreNIC) | OK | OK |
| | | DPDK vRouter (coreNIC) | x | x |
| | | SRIOV - vRouter bypass (CoreNIC) | x | x |
| | | SmartNIC - VirtIO VM with vRouter offload | OK | OK |
| | | SmartNIC - SR-IOV + kernel vRouter offload | OK | OK |
| | | LCM | x | x |
| | | VF Kernel Driver | x | x |
| Netronome | Agilio FX 2x10GE | SmartNIC - Control Plane + Data Plane offload | x | x |
| | | Kernel vRouter (coreNIC) | OK | OK |
| | | DPDK vRouter (coreNIC) | x | x |
| | | SRIOV - vRouter bypass (CoreNIC) | x | x |
| | | SmartNIC - VirtIO VM with vRouter offload | OK | OK |
| | | SmartNIC - SR-IOV + kernel vRouter offload | OK | OK |
| | | SmartNIC - Control Plane + Data Plane offload | x | x |

| Legend | | Note: |
|--------|---------------|--|
| ? | Not Tested | NICs on blade servers might not work as designed sometimes with Contrail Networking's overlay model that assumes an IP fabric underlay. Additional proprietary switching materially changing packets might cause problems for Contrail Networking's overlay. |
| x | Not Supported | |
| | | There is no support for VLAN's with Mellanox NIC. |