

Broadcom Limited
Broadcom Ethernet Controllers Software Kit
BCM5741x/5750x/57608 Release
RELEASE 237.1.148.0a

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Summary

- This is a Gold Release of 57608 (Thor 2), 5750x (Thor) and 5741x (Whitney+) Ethernet adapters.
- This release is based on SIT build 237.1.148.0a
- Certified EFI, Windows, SUSE and VMWare ESX drivers are marked with an asterisk in the 'Release Version Information' Table.
 - SUSE signed packages are available in '**Driver**' → 'Broadcom NetXtreme-E Linux Installer' under 'drivers_linux/bundle/sles_signed' folder
 - ESXi signed drivers are available in '**Driver**' → 'Broadcom NetXtreme-E ESXi Drivers'
Note: ESXi signed drivers until 230 release are to be downloaded from [VMware.com](https://www.vmware.com)
 - Windows signed drivers are available in '**Driver**' → 'Broadcom NetXtreme-E Windows Drivers'

Supported Devices

This release of software supports:

- Broadcom BCM57412 NetXtreme-E 10Gb Ethernet Controller
- Broadcom BCM57414 NetXtreme-E 10/25/50Gb Ethernet Controller
- Broadcom BCM57416 NetXtreme-E 10GBASE-T Ethernet Controller
- Broadcom BCM57502 NetXtreme-E 10/25/40/50Gb Ethernet Controller
- Broadcom BCM57504 NetXtreme-E 10/25/40/50/100Gb Ethernet Controller
- Broadcom BCM57508 NetXtreme-E 10/25/40/50/100/200Gb Ethernet Controller
- Broadcom BCM57608 NetXtreme-E 25/50/100/200/400Gb Ethernet Controller

User Guide

Please refer to the following user guide for configuring Broadcom Ethernet Adapters:

[Broadcom Ethernet Network Adapter User Guide](#)

Supported Operating Systems

Please refer to the following guide for the list of supported Operating Systems:

[Supported Operating Systems for Ethernet Network Adapters](#)

DOCA and MOFED Support

Please refer to the following section in the user guide for the supported versions:

[Supported DOCA and MOFED versions](#)

Supported Cables

Please refer to the following guide for the list of supported cables and transceivers:

[Supported Cables for Broadcom Ethernet Network Adapters](#)

These cables and transceivers were tested and deemed interoperable with Broadcom's Ethernet network adapters. Note this list does not imply full qualification of the cables.

Common Feature Support

Common support for 57608 (Thor 2), 5750x (Thor) and 5741x (Whitney+).

The features below are supported in this release along with new features and enhancements listed in the “Features and Enhancements” section.

Core Support

- Base Ethernet Functionality (L2 drivers)
- Link Establishment & Maintenance: Auto Negotiation, Auto Detect, Link Training
- Pre-Boot: uEFI, iPXE, uEFI iSCSI stack

CPU Support

- Intel x86
- AMD x86
- ARM

GPU Support

- Nvidia GPUs
- AMD GPUs

Poll Mode Drivers

- DPDK support

Management

- NC-SI 1.2
 - RBT/RMII
 - MCTP/SMBus or I2C
 - MCTP/PCIe VDM
 - Control Path

- Passthrough (SH and MH)
- SMBus Discovery
- MCTP Discovery
- PCIe
- PLDM/MCTP
- LLDP/DCBX
- Firmware based DCBX

Reliability, Accessibility, Serviceability (RAS)

- Health check
- Coredump and Crashdump
- Firmware Logging in Host
- Error recovery Support
- Monitoring (ethtool, RoCE stats)

Security

- Secure boot
- SPD 1.2, 1.1, 1.0 - Attestation
 - MCTP over SMBus and PCIe VDM
- CNSA 1.0
- Anti-Rollback
- FW Key Revocation
- Secure firmware updates

AI Libraries (Thor and Thor2)

- ROCm Support
- Communication and Collectives Libraries
- Open MPI
- Generic UCX Support
- rdma-core
- MVAPICH
- libfabric

Thor 2 Feature Support

The features below are supported in this release along with new features and enhancements listed in the “Features and Enhancements” section.

Core support

- Multi-root and Multi-host GA support
- Flow-redirect
- SR-IOV
 - Max VFs = 128
- NPAR
 - Max total NPAR endpoints = 16
 - Max per port: Dual Port = 8, Quad Port = 4
- TruFlow Generic Application
 - Multi-root, multi-card support
 - Hot upgrade/Shared session
 - Socket Direct
 - Generic flow query
 - LAG
 - Interface handling
 - HW LAG with Global table scope support
 - RoCE Tx ring pairing with HW LAG support
- OvS offload (kernel and DPDK)
 - OvS DPDK and TC GA
 - SRV6 encap/decap support
 - MPLS encap/decap for TC support
- DOCA support
- MOFED support

RoCE

- Supports RoCEv2 (v1 is deprecated)
- LAG
- RTT
- Programmable UDP Source Port
- Adaptive Routing (DLB)
- RoCE/SRIOV
- tcpdump direct capture of RoCE traffic
- RoCE support in NPAR for Linux
- RoCE Tx Pairing
- FreeBSD support
- RoCE Tx ring pairing with Multi Lossless support
- Minimum of 64 VF support
- HW retransmit support
- VF RDMA on ESXi host support
- GPUDirect Async (GDA) support

Miscellaneous

- PTP
- Transmit Pacing
- Allow HW DCQCN and UDCC to coexist
- PCIe Trace Analyzer support
- Linux kTLS offload support
- FreeBSD kTLS offload support
- NIC Telemetry Agent
- Geneve encap/decap support
- Reset firmware using devlink reload command
- Port breakout support on single and dual port Thor2 adapters
- FW update activation without reboot
- UDP GSO general segmentation offload in Linux
- LEDs toggle support
- PPP over GRE Support
- Secure ATS Solution

Thor and Whitney+ Feature Support

The features listed below may not be supported for both 5750x (Thor) and 5741x (Whitney+). Please contact the local Broadcom support team if additional clarification is needed.

The features below are supported in this release along with new features and enhancements listed in the “Features and Enhancements” section.

RoCE (Thor)

- RoCE drivers
- RoCE Mirroring
- RoCE performance profiles
- Windows user mode RDMA support - NDSPI
- Guest Mode RDMA support (Linux and Windows only)
- VSAN over RDMA
- Multi-Root RoCE
- RoCE SR-IOV
- Error Recovery for RoCE
- RoCE Performance tuning
- RoCE Userlib Performance Optimization
- FreeBSD RoCE v2 support
- Co-existence with MLNX IB/RoCE NIC
- tcpdump direct capture of RoCE traffic support
- VF RDMA on ESXi host support (NEW)

RoCE (Whitney+)

- RoCE drivers
- VSAN over RDMA
- RoCE performance profiles
- Windows user mode RDMA support - NDSPI

Miscellaneous

- Network Partitioning NPAR 1.2
- PTP
- NVMe/TCP Support (VMWare cert)
- NIC thermal threshold and shutdown logging and handling by host driver
- PLDM FW Update 1.3.0 Support for multiple PCIe Rev IDs and embedded FW measurement (Thor)
- Adaptive QoS (Thor)
- Hot-Plug support for OCP 3.0 (Thor)
- PAM4 speeds are enabled by default (Thor)
- Kubernetes SR-IOV Network Device Plugin support with RoCE (Thor)
- Thor Quality Improvements with MPS and TI VR support for various SKU
- Local node memory allocation - Page pool per NUMA node support
- ADQ (Application Device Queues) Support (Thor)
- QP Scanning Performance Improvement for up to 64K QPs (Thor)
- Adapter Discovery Support (Thor)
- AMD SDCI No ST Mode and Interrupt Vector Mode Support (Thor)
- Support to enable/disable Power On Ethernet through NIC (Whitney+)
- Support dynamic port breakout to 2-ports or 4-ports (Thor)
- Custom counters support for Windows Performance Monitor (Thor)
- Update DMTF Specifications to latest versions (Wh+)
- LEDs toggle support (Thor)

NIC Utilities

Common utilities for 57608 (Thor 2), 5750x (Thor) and 5741x (Whitney+)

Please refer to the following link for detailed descriptions of all the tools:

[Ethernet Network Adapter Utilities](#)

Features and Enhancements

The following features and enhancements are added in this release.

RoCE & RDMA enhancement

JIRA/Adapter	Feature Description
DCSG-37762 Thor2	Increased the RoCE inline message size on Thor2 to 480 bytes, improving performance for small-message RDMA workloads by allowing more data to be sent inline with the work request.
DCSG-40832 Thor2	Added completion timestamp support for RoCE on Thor2, allowing applications to track precise timing of RDMA operation completions for accurate Network RTT measurement.
DCSG-41928 Thor2	On host systems which support Smart Data Cache Injection (SDCI), the operating system can direct RoCE traffic to the correct CPU by assigning a steering tag to the corresponding context. Steering tags are supported on CQs, QPs, and SRQs.
DCSG-42563 Thor2	Allow UDP source port modification on RoCE QPs regardless of the QP state.
DCSG-39681 Thor2	Added support for multiple lossless QoS traffic classes when using RoCE with Link Aggregation Groups (LAG) on Thor2, enabling more flexible network quality-of-service configurations.
DCSG-8768 Thor2	Added Enhanced Transmission Selection (ETS) support for hardware LAG on Thor2, enabling QoS-aware bandwidth allocation across bonded links.
DCSG-40527 Thor	Increased the scale of VF RoCE in containerized environments on Thor, supporting a larger number of virtual functions with RoCE capability.
DCSG-50775 Thor	Added support for high-density VF configurations with dynamic MSI-X allocation, TC flower offload, and VF RoCE on Thor for containerized deployments.
DCSG-34108 Thor2	Added configurable PFC (Priority Flow Control) Pause Duration, allowing users to set the pause quanta value for lossless traffic management.

AI/ML & GPU Direct

JIRA/Adapter	Feature Description
DCSG-65488 Thor2	Added support for DMABUF (DMA Buffer Sharing) with Thor2, enabling GPU Direct RDMA memory registration using DMABUF for AMD MI300X and MI350 GPUs.
DCSG-69856 Thor2	Upgraded the complete AI/ML software stack: NCCL 2.28.7, CUDA 13.0.2, GDR-Copy 2.5.1, UCX 1.19, Open MPI 5.0.8.
DCSG-69857 Thor2	Added ROCm support with verified 3rd-party library versions in the NIC wizard installer (ROCm/RCCL 7.1.0, UCX 1.19, Open MPI 5.0.8, OSU 7.5.1). The installer compares installed versions against a supported list and warns users about unqualified stacks.
DCSG-73278 All	Increased the maximum macvlan interfaces that can be created on a PF from 3 to over 100, enabling Kubernetes POD deployments requiring large numbers of MACVLAN-based CNIs with RoCE support.
DCSG-64914 Thor2	Added GPU Direct Async (GDA) support for certain OS and kernel combination, enabling optimized GPU-NIC data transfers.

L2 Networking, Virtualization & Performance

JIRA/Adapter	Feature Description
DCSG-50002 Thor2	Enabled NPAR 1.2 and default VLAN concurrently, allowing network partitioning and VLAN tagging to coexist on the same adapter.
DCSG-26300 Thor2	Added hardware transmit pacing support on Thor2 for Linux, enabling rate-limited packet transmission for improved traffic management and reduced congestion.
DCSG-50976 Thor2	Enable CQE mode. This feature allows the host to control the Notification Queue Interrupt Aggregation behavior for L2 and RoCE CQs on Thor2. The hardware supports 2 modes: default mode and the timer reset mode.

DCSG-16307 All	Added Segment Routing over IPv6 (SRv6) segmentation support across NXE adapters, enabling modern network programming and traffic engineering capabilities.
DCSG-39369 Thor2	Added PCIe Hot Plug support on Thor2, enabling adapter insertion and removal without system power-down.
DCSG-41925 Thor2	Added dynamic VMQ (Virtual Machine Queue) allocation based on the number of enabled PFs, optimizing resource distribution.

PHY, Link & Transceiver

JIRA/Adapter	Feature Description
DCSG-54761 Thor2	Improved link speed autodetect for improved reliability and consistency, while reducing time-to-link where possible. Also reduces time to recover a link for cases where the signal is lost for a short time.
DCSG-41929 Thor2	Added AutoDetect support for different Forward Error Correction (FEC) versions at 25G speeds, improving interoperability with varied link partners.
DCSG-41351 Thor2	Enable ethtool access to FDR statistics in the PHY for FEC histogram and other uses. The firmware automatically starts collecting statistics from init time. Users can use Ethtool to grab accumulated counters (expects fdrstat is always running and counters never get reset). Users can use niccli to display accumulated and 'last cycle' counters, and issue start, stop, or clear commands.
DCSG-44781 Thor2	Added link-down reason reporting in the FreeBSD driver, enabling administrators to diagnose the cause of link failures.

PTP & Timing

JIRA/Adapter	Feature Description
DCSG-49763 Thor2	Enable/use Thor2 in PTP grandmaster mode.

DCSG-61866 Thor2	Added eCPRI (enhanced Common Public Radio Interface) packet parsing and hardware time stamping support, enabling precise timing for 5G fronthaul applications.
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FreeBSD Driver Enhancements

JIRA/Adapter	Feature Description
DCSG-45285 Thor2	General Availability release of SR-IOV support on the FreeBSD driver, enabling virtual function creation and management for virtualized environments.
DCSG-56490 Thor2	Implemented debugnet support in the FreeBSD driver, enabling kernel crash dump over the network for remote debugging.
DCSG-56489 Thor2	Added additional temperature sensor support in the FreeBSD driver, providing more comprehensive thermal monitoring.
DCSG-56488 Thor2	Implemented the SIOCGIFDOWNREASON ioctl in the FreeBSD driver, providing link-down reason reporting through standard FreeBSD interfaces.
DCSG-47568 Thor2	Improved kernel TLS (kTLS) offload support in the FreeBSD driver, enhancing encrypted network performance.
DCSG-36383 Thor2	Added libbxtre support for ibv_devices and ibv_info commands on FreeBSD, enabling RDMA device enumeration and information queries.

DPDK Enhancements

JIRA/Adapter	Feature Description
DCSG-40707 Thor2	Improved auto-negotiation and flow control logic in the DPDK PMD (Poll Mode Driver), enhancing link establishment reliability and flow control behavior.

NIC Wizard & Installer

JIRA/Adapter	Feature Description
DCSG-72915 All	Integrated the Counter Monitor (cmon), a comprehensive real-time network interface counter monitoring system, into the NIC Wizard. Monitors L2 counters, RoCE statistics, PCI-E metrics, and error conditions.
DCSG-49620 All	Added a "native" option to the NIC Wizard that uses the Linux devlink subsystem for NIC configuration, providing an alternative to proprietary management interfaces.
DCSG-47579 All	Enhanced the NIC Wizard to verify and handle QoS settings from the <code>bnxt_re_conf</code> package, ensuring consistent RoCE QoS configurations.
DCSG-38873 All	Added IPv6 address support to NIC Wizard, enabling configuration and management operations with IPv6 network addresses.
DCSG-47067 All	This feature introduces a method within the NIC Wizard / RoCE Analyzer to verify the routing configuration for the backend network in AI/ML clusters. Key checks include: Netplan Verification (MTU, addresses, routing, routing-policy), Actual Configuration Verification (compares configured vs running IPv4/IPv6 interface and routing rules), ARP Flux Prevention (verifies <code>net.ipv4.conf.all.arp_ignore</code> and <code>arp_announce</code>), and Connectivity Testing (ping and traceroute).
DCSG-40604 All	Added L2 connectivity testing support to the RoCE Analyzer in NIC Wizard for hosts in AI/ML clusters. This allows connections to be confirmed even when each host NIC is configured with a distinct subnet to mitigate ARP flux. Prerequisite: The script verifies the installation of the <code>sshpass</code> utility and will display an error if it is not found.
DCSG-49621 All	Added support for previously missing API versions in the CCL plugins, improving backward compatibility.
DCSG-39078 Thor2	Added nictune performance tuning tool support for FreeBSD, enabling automated NIC performance optimization on FreeBSD systems.

NICCLI & Diagnostics

JIRA/Adapter	Feature Description
DCSG-66691 All	Enhanced niccli command failure outputs to provide better error descriptions along with exit codes, improving usability when commands fail.
DCSG-53975 Wh+	Added active lanes reporting to NICCLI on Wh+ adapters, allowing users to view currently active SerDes lanes for link diagnostics.
DCSG-53971 All	Improved transceiver module sub-type detection for SFP+, SFP28, and QSFP28 modules, providing more accurate identification in NICCLI output.
DCSG-50171 All	Set of enhancements for improved display of various PHY related debug information in the tools. Details about cable speed/modes, FEC Mode, FEC effective BER, Link Status, AN status, AD status (current state), Force link mode, Link Indications (signal detect, PMD lock), Module info (temperature, connected), Additional Diagnostic recommendations, and Link process log are now captured.
DCSG-56184 All	Added PCIe negotiated link width and link speed information to the <code>niccli show --all</code> output, allowing users to easily verify PCIe configuration during diagnostics.
DCSG-52651 All	Developed a diagnostic tool enabling self-service troubleshooting and health checks, including NVM fragmentation detection before firmware updates.

Pre-boot & UEFI

JIRA/Adapter	Feature Description
DCSG-59061 Thor, Thor2	Updated the pre-boot UEFI driver to comply with UEFI specification version 2.11.
DCSG-22200 Thor, Thor2	Updated Thor1/Thor2 behavior to preserve NIC configuration when the system BIOS issues a "load BIOS defaults" command, preventing unintended NIC setting resets.

DCSG-50582 Wh+	Fixed the "Restore Defaults" function in the pre-boot UEFI driver for generic Wh+ adapters, ensuring correct default values are applied.
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BMC, NCSI & Platform Management

JIRA/Adapter	Feature Description
DCSG-43445 Thor2, Wh+	Implemented the Manufacturing Timestamp TLV in the NC-SI "Get Inventory Info" command response on Thor2, providing manufacturing date information to BMC.
DCSG-59453 Thor2	Added support for the PLDM GetFirmwareParameters command, enabling platform management controllers to query firmware component information.

Defects Fixed

The following defects are fixed in this release.

RoCE & RDMA

JIRA/Adapter	Defect Description
DCSG-89254 Thor2	ud_pingpong fails with CQE error when there is a message size mismatch.
DCSG-94801 Thor	Firmware asserts when unloading driver with VF LAG traffic.

L2 Networking, Virtualization & Performance

JIRA/Adapter	Defect Description
DCSG-80825 Thor	NPAR 1.2 : Firmware asserts with SRIOV disabled.

DCSG-80800 Thor	Hardware interface error when reloading drivers on multi-root cards.
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PHY, Link & Transceiver

JIRA/Adapter	Defect Description
DCSG-92303 Thor2	Port Operation Mode setting does not take effect without power cycle.

BMC, NCSI & Platform Management

JIRA/Adapter	Defect Description
DCSG-80693 Thor	NCSI command causing BMC timeouts.

Tools & Diagnostics

JIRA/Adapter	Defect Description
DCSG-95101 All	Firmware upgrade fails when NVM_WRITE fails with fragmentation error.
DCSG-94532 All	Missing niccli error message when invalid link --autoneg command is run.
DCSG-84570 Wh+	Hardware interface timeout and failed NVM programming after nvm --clear on Whitney+.
DCSG-81985 Thor	UEFI niccli fails to update firmware on fragmented NVM.

Notes

RoCE Related:

- The default RoCE congestion control algorithm is DCQCN-P.
- The IPv4 RoCE v2 GID index for a typical case is 3. Please refer to the User guide for best practices in determining GID type using the Linux sysfs interface.
- ETS has limitations in the RoCE LAG environment in port toggle scenarios

Generic UCX Support for Single Host non-virtualized environments:

- OpenMPI with UCX PML
- OSU microbenchmarks with OpenMPI/UCX
- UCX perfest
- RDMA Transport
- Atomic operations with UCX are not supported

RoCE and NPAR:

- If NPAR is enabled, RoCE and ENS cannot be used together

Usage and Release folder structure

Firmware NVRAM Images:

- Pre-built NVRAM package files are available in the 'board_sku_files' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer'
- NVRAM package files are also available in the '**Firmware**' tab on the respective Ethernet Adapter product page.

Linux:

- There are several Linux related drivers/packages in the 'drivers_linux' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer'
 - bundle: Bundle for L2 and RoCE drivers source and DKMS packages. This also contains SUSE signed driver packages
 - bnxt_en: L2 driver source and DKMS packages
 - bnxt_re: RoCE driver DKMS packages
 - bnxt_rocelib: RoCE library source and RPM
 - peer_mem: GPU Direct driver
- DCSG00411462.self.cert.der: Secure boot openssl certificate
- readme_secure_boot.txt: Secure boot readme
- There are 2 tarballs in the drivers_linux folder, the "bnxt_en-x.x.xx.tar.gz" is the L2 driver only and the "netxtreme-bnxt_en-x.xx tar.gz" file is the combined package with L2 and RoCE drivers.

- For the Linux driver included as part of the SW package please refer to the "Readme.txt" file included in the driver tarball for commands, driver settings and other important information.

Tools:

- NIC Wizard:
 - Unified interface for integrating and running different NIC scripts/tools.
 - This tool is available in the 'utils/nic_wizard' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer' and contains the following sub-tools.

Installer:

- Tool to assist the user in easily installing the Linux and RoCE drivers and upgrading Firmware.

nictune:

- Tool used for automating performance tuning of Broadcom NetXtreme Ethernet Network Interface Cards.

RoCE Analyzer:

- RoCE diagnostic analysis tool.

Broadcom SOSReport:

- Tool used for collecting system information for support purposes.

- niccli:
 - Tool used for updating NVRAM, including firmware updates and configuration parameters.
 - This tool is available in the 'utils/niccli' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer' for Linux OS.
 - The tool for different OSes is available under the '**Firmware**' tab.
- Broadcom Containers:
 - Broadcom RoCE Docker container.
 - This tool is available in the 'utils/bcm_containers' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer'.

FreeBSD: FreeBSD drivers are available under '**Driver**' → 'Broadcom NetXtreme-E FreeBSD Driver'

VMware: ESXi signed drivers are available under '**Driver**' → 'Broadcom NetXtreme-E ESXi Drivers'

Windows: Windows signed drivers are available under '**Driver**' → 'Broadcom NetXtreme-E Windows Drivers'

Release Version Information Table

Product	Version	Previous Version
Firmware NVM Package	237.1.148.0	<< 236.1.155.0
Linux L2 Driver	1.10.3-237.1.137.0	<< 1.10.3-236.1.155.0
Linux RoCE Driver	237.1.137.0	<< 236.1.155.0
Linux RoCE Library	237.1.137.0	<< 236.1.155.0
Linux GPU Driver	237.1.137.0	<< 236.1.155.0
Win Srv 2022 x64 Driver	237.1.124.0*	<< 236.1.152.0*
Win Srv 2025 x64 Driver	237.1.124.0*	<< 236.1.152.0*
Win 11 x64 Driver	237.1.124.0*	<< 236.1.152.0*
VMware ESX8.0 L2/RoCE Driver	237.1.132.0*	<< 236.1.128.0*
VMware ESX9.0 L2/RoCE Driver	237.1.132.0*	<< 236.1.128.0*
FreeBSD BNXT Driver	237.1.126.0	<< 236.1.119.0
Nic Wizard	237.1.146.0	<< 236.1.151.0
Niccli	237.1.145.0	<< 236.1.150.0
Broadcom Container	237.1.137.0	<< 236.1.151.0
**** 57608/5750x (Thor 2 / Thor) NVM component version ****		
Boot Code	237.1.148.0	<< 236.1.153.0
MBA Driver	237.1.142.0	<< 236.1.142.0
UEFI UNDI	237.1.142.0*	<< 236.1.142.0*
**** 5741x (Whitney+) NVM component version ****		
Boot Code	237.1.141.0	<< 236.1.126.0
NCSI	237.1.141.0	<< 236.1.126.0
RoCE Firmware	237.1.141.0	<< 236.1.126.0
MBA Driver	237.1.142.0	<< 236.1.142.0
UEFI UNDI	237.1.142.0 *	<< 236.1.142.0*

Note: An asterisk (*) following a version number represents a certified driver.
Arrows (<<) between versions indicate the component has been updated from the previously released software kit.