

FIPS 140-2 Consolidated Validation Certificate



The National Institute of Standards and Technology of the United States of America



July 2022



The Canadian Centre for Cyber Security

The National Institute of Standards and Technology, as the United States FIPS 140-2 Cryptographic Module Validation Authority; and the Canadian Centre for Cyber Security, as the Canadian FIPS 140-2 Cryptographic Module Validation Authority; hereby validate the FIPS 140-2 testing results of the cryptographic modules listed below in accordance with the Derived Test Requirements for FIPS 140-2, Security Requirements for Cryptographic Modules. FIPS 140-2 specifies the security requirements that are to be satisfied by a cryptographic module utilized within a security system protecting Sensitive Information (United States) or Protected Information (Canada) within computer and telecommunications systems (including voice systems).

Products which use a cryptographic module identified below may be labeled as complying with the requirements of FIPS 140-2 so long as the product, throughout its life-cycle, continues to use the validated version of the cryptographic module as specified in this consolidated certificate. The validation report contains additional details concerning test results. No reliability test has been performed and no warranty of the products by both agencies is either expressed or implied.

FIPS 140-2 provides four increasing, qualitative levels of security: Level 1, Level 2, Level 3, and Level 4. These levels are intended to cover the wide range and potential applications and environments in which cryptographic modules may be employed. The security requirements cover eleven areas related to the secure design and implementation of a cryptographic module.

The scope of conformance achieved by the cryptographic modules as tested are identified and listed on the Cryptographic Module Validation Program website. The website listing is the official list of validated cryptographic modules. Each validation entry corresponds to a uniquely assigned certificate number. Associated with each certificate number is the module name(s), module versioning information, applicable caveats, module type, date of initial validation and applicable revisions, Overall Level, individual Levels if different than the Overall Level, FIPS-approved and other algorithms, vendor contact information, a vendor provided description and the accredited Cryptographic Module Testing laboratory which performed the testing.

Signed on behalf of the Government of the United States

Signature: _____

Dated: _____

Chief, Computer Security Division
National Institute of Standards and Technology

Signed on behalf of the Government of Canada

Signature: _____

Dated: _____

Director, Risk Mitigation Programs
Canadian Centre for Cyber Security

Certificate Number	Validation / Posting Date	Module Name(s)	Vendor Name	Version Information
4260	07/06/2022	Druva FIPS Cryptographic Module	Druva Inc.	Software Version: 2.2
4261	07/08/2022	HSSD_V6 Series	Huawei Technologies Co., Ltd.	Hardware Version: HSSD-D7294DL1T9E, HSSD-D7294DL3T8E, HSSD-D7294DL7T6E; Firmware Version: 1063
4262	07/08/2022	SonicWall Network Security Virtual Appliances	SonicWall, Inc.	Firmware Version: SonicOSX 7.0
4263	07/13/2022	NITROXIII CNN35XX-NFBE HSM Family	Marvell	Hardware Version: P/Ns CNL3560P-NFBE-G, CNL3560P-NFBE-2.0-G, CNL3560P-NFBE-3.0-G, CNL3560B-NFBE-2.0-G, CNL3560B-NFBE-3.0-G, CNL3560-NFBE-G, CNL3560-NFBE-2.0-G, CNL3560-NFBE-3.0-G, CNL3560A-NFBE-3.0-G, CNL3560C-NFBE-3.0-G, CNL3560D-NFBE-3.0-G, CNL3560E-NFBE-3.0-G, CNL3560F-NFBE-3.0-G, CNL3530-NFBE-G, CNL3530-NFBE-2.0-G, CNL3530-NFBE-3.0-G, CNL3530B-NFBE-2.0-G, CNL3530B-NFBE-3.0-G, CNL3530A-NFBE-3.0-G, CNL3530C-NFBE-3.0-G, CNL3530D-NFBE-3.0-G, CNL3530E-NFBE-3.0-G, CNL3530F-NFBE-3.0-G, CNL3510-NFBE-G, CNL3510-NFBE-2.0-G, CNL3510-NFBE-3.0-G, CNL3510P-NFBE-G, CNL3510P-NFBE-2.0-G, CNL3510P-NFBE-3.0-G, CNL3510A-NFBE-3.0-G, CNL3510C-NFBE-3.0-G, CNL3510D-NFBE-3.0-G, CNL3510E-NFBE-3.0-G, CNL3510F-NFBE-3.0-G, CNN3560P-NFBE-G, CNN3560P-NFBE-2.0-G, CNN3560P-NFBE-3.0-G, CNN3560-NFBE-G, CNN3560-NFBE-2.0-G, CNN3560-NFBE-3.0-G, CNN3560A-NFBE-3.0-G, CNN3560C-NFBE-3.0-G, CNN3560D-NFBE-3.0-G, CNN3560E-NFBE-3.0-G, CNN3560F-NFBE-3.0-G, CNN3530-NFBE-G, CNN3530-NFBE-2.0-G, CNN3530-NFBE-3.0-G, CNN3530A-NFBE-3.0-G, CNN3530C-NFBE-3.0-G, CNN3530D-NFBE-3.0-G, CNN3530E-NFBE-3.0-G, CNN3530F-NFBE-3.0-G, CNN3510-NFBE-G, CNN3510-NFBE-2.0-G, CNN3510-NFBE-3.0-G, CNN3510A-NFBE-3.0-G, CNN3510C-NFBE-3.0-G, CNN3510D-NFBE-3.0-G, CNN3510E-NFBE-3.0-G, CNN3510F-NFBE-3.0-G, CNN3510LP-NFBE-2.0-G, CNN3510LP-NFBE-3.0-G, CNN3510LPB-NFBE-2.0-G, CNN3510LPB-NFBE-3.0-G, CNN3510LPA-NFBE-3.0-G, CNN3510LPC-NFBE-3.0-G, CNN3510LPD-NFBE-3.0-G, CNN3510LPE-NFBE-3.0-G, CNN3510LPF-NFBE-3.0-G, CNN3505LP-NFBE-2.0-G, CNN3505LP-NFBE-3.0-G, CNN3505LPA-NFBE-3.0-G, CNN3505LPC-NFBE-3.0-G, CNN3505LPD-NFBE-3.0-G, CNN3505LPE-NFBE-3.0-G and CNN3505LPF-NFBE-3.0-G; Firmware Version: CNN35XX-NFBE-FW-1.1 build 02 and CNN35XX-NFBE-FW-1.1 build 05
4264	07/15/2022	Check Point Cryptographic Library	Check Point Software Technologies Ltd.	Firmware Version: 1.1
4265	07/17/2022	Inline Crypto Engine (ICE)	Google, LLC	Hardware Version: 1.0
4266	07/18/2022	Oracle Linux 7 Libreswan Cryptographic Module	Oracle Corporation	Software Version: R7-7.8.0

Certificate Number	Validation / Posting Date	Module Name(s)	Vendor Name	Version Information
4267	07/18/2022	Security Builder® FIPS Module	BlackBerry Limited	Software Version: 6.5.0
4268	07/18/2022	Ultrastar® DC SN840 NVMe™ PCIe 3.0 Self Encrypting Drive	Western Digital Technologies, Inc.	Hardware Version: P/Ns WUS4C6416DSP3X5, WUS4BA119DSP3X5, WUS4C6432DSP3X5, WUS4BA138DSP3X5, WUS4C6464DSP3X5, WUS4BA176DSP3X5 and WUS4BA1A1DSP3X5; Firmware Version: R2210400 and R2EF0003
4269	07/18/2022	Ultrastar® DC HC550 TCG Opal Self-Encrypting Drive and Ultrastar® DC HC650 TCG Opal Self-Encrypting Drive	Western Digital Corporation	Hardware Version: P/Ns WUH721818AL4206 [2], WUH721816ALN6L6 [2], WSH722020AL4206 [1]; Firmware Version: R463 [1] and R670 [2]
4270	07/18/2022	Ultrastar® DC SN540 NVMe™ PCIe 3.0 Self-Encrypting Drive and Ultrastar® DC ZN540 NVMe™ PCIe 3.0 Self-Encrypting Drive	Western Digital Corporation	Hardware Version: P/Ns WUS4B7619DSP305 [1], WUS4B7638DSP305 [1], WUS4B7676DSP305 [1], WUS4B7696DSP305 [1], WZS4C8T1TDSP305 [2], WZS4C8T2TDSP305 [2], WZS4C8T4TDSP305 [2], and WZS4C8T8TDSP305 [2]; Firmware Version: R611000Q [1] and R6Z10022 [2]
4271	07/18/2022	Red Hat Enterprise Linux 8 OpenSSL Cryptographic Module	Red Hat(R), Inc.	Software Version: rhel8.20210325
4272	07/18/2022	Red Hat Enterprise Linux 8 GnuTLS Cryptographic Module	Red Hat(R), Inc.	Software Version: rhel8.20210401
4273	07/25/2022	Microsoft Azure Networking Adapter Kernel	Microsoft Corporation	Software Version: 1.0; Hardware Version: BCM58732
4274	07/26/2022	Instant-On Networks (ION) devices ION 1000, ION 2000, ION 3000, ION 7000, and ION 9000	Palo Alto Networks, Inc.	Hardware Version: ION 1000, ION 2000, ION 3000, ION 7000, and ION 9000; Firmware Version: 5.5.1