FIPS 140-2 Validation Certificate



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





The Communications Security
Establishment of the Government
of Canada

Certificate No. 843

The National Institute of Standards and Technology, as the United States FIPS 140-2 Cryptographic Module Validation Authority; and the Communications Security Establishment, as the Canadian FIPS 140-2 Cryptographic Module Validation Authority; hereby validate the FIPS 140-2 testing results of the Cryptographic Module identified as:

7350 iNFINITI Satellite Router, iConnex-700, iConnex-100, and M1D1-T Universal Line Card by iDirect Technologies, Inc.

(When operated in FIPS mode)

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 the above identified cryptographic module 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 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.

This certificate includes details on the scope of conformance and validation authority signatures on the reverse.

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 in the product identified as:

7350 iNFINITI Satellite Router, iConnex-700, iConnex-100, and M1D1-T Universal Line Card by iDirect Technologies, Inc. (Hardware Versions: 9130-0062-0002, 9101-2040-0201, 9101-2040-0202 and 9101-0040-0008; Software Version: iDS version 7.1.2; Hardware)

and tested by the Cryptographic Module Testing accredited laboratory:		Code 200	EWA - Canada IT Security Evaluation & Test Facility, NVLAP Lab Code 200556-0 CRYPTIK Version 6.0		
is as follows:		<u> </u>			
Cryptographic Module Specification:	Level 1	Cryptogr	aphic Module Ports and Interfa	ces: Level 1	
Roles, Services, and Authentication:	Level 1	Finite Sta	ate Model:	Level 1	
Physical Security:	Level 1	Cryptogr	aphic Key Management:	Level 1	
(Multi-Chip Embedded) EMI/EMC:	Level 1	Self-Test	ts:	Level 1	
Design Assurance:	Level 1	Mitigation	n of Other Attacks:	Level N/A	
Operational Environment:	Level 1	tested in	tested in the following configuration(s): N/A		
The following FIPS approved Cryptograp	phic Algorithms are used:		and #528); Triple-DES (Cert. #5 ; RSA (Cert. #238)	34); SHS (Cert. #600);	
The cryptographic module also contains the following non-FIPS approve			algorithms: RSA (key wrapping; key establishment methodology provides 112 bits of encryption strength); Diffie-Hellman (key agreement; key establishment methodology provides 80 bits of encryption strength		
	Overall L	evel Achieved	d: 1		
Signed on behalf of the Government of the United States		Sign	Signed on behalf of the Government of Canada		
Signature: Dongar-Dodson for W. Barker		Sign	Signature: Ale Caussieau.		
Dated: 18 - October 2007		Date	ed: 16-actober 201	07	
Chief, Computer Security Division National Institute of Standards and Technology		A/Direc	Director, Industry Program Group Communications Security Establishment		