	CLIDD		INFORMATION	
SUPPI	SUPP LIER NAME	Realtek Semiconductor Corp	SUPPLIER SIGNATURE Docusigned by:	
	LIER CONTACT EMAIL	chungyou@realtek.com, bambi.yeh@realtek.com, uj_lin@realtek.		2/20/2024
SOFFI	ACCREDITED L	1	ACCREDITED LABORATORY SIGN	IATURE
LABO	RATORY NAME	UNH InterOperability Laborator		
LABO	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.ed	Michaela Aburranda	2/21/2024
	[2] PRODUCT VE		[3] PRODUCT ID	
	2.1	7.2	RTL8157-C	G
		[4] PROD	UCT FAMILY	
	APPLICABLE SER	IES HARDWARE	APPLICABLE SERIES SOFTWA	ARE
RTL8	3157-CG		r8152-2.17.2	
		[5] UNITARY OR	COMPOSITE SDOC	
	nitary : All of the declared ca ssed by original test results	apabilities of this product are reported in this SDoC.	Composite: Some or all of the capabilities of are provided by the use and/or integration of un components that have their own unique SDoCs relevant referenced SDoCs are identified in seclinked.	modified . All of the
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMMARY	COMPOSITE SDOC LINK
i.	Realtek Semiconductor Corp.	RTL8157-CG/2.17.2	USGv6-r1:Host+Core+SLAAC+Addr-Arch+Link=Etherne	t
		[7] USGV6-CAPAE	BLE REQUIREMENTS	
U	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router	<u> </u>	pable-NPP
•	NICT CD COO OCZD-4 LI		S) REFERENCED	
i. ii.	NIST SP 500-267Br1, U	SGV6 Profile		
•••		[9] SUPPLEMENT	ARY ATTESTATIONS	
That is	s, no claimed capabilities ar	I in dual stack environments. re invalidated if this product is d IPv4) network environment.	This product is fully functional in IPv6 only e That is, no claimed capabilities are invalidated if deployed in a network environment that does no	this product is t support IPv4.
unique	nis SDoC contains a capabi e IPv6 stack in the product. ed are documented, and ho hose reported are explained	If not, the stacks/ports not w their IPv6 capabilities differ	✓ All of the products listed in the product family implemented such that their capabilities are iden function across the entire product family. The sp conformance and interoperability test results for of an identified member of this product family are SDoC. The SDoC attests that these tested capa identical and unmodified for all the products cited.	ntical in form and lecific the capabilities le provided in this bilities are

Host Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
	RTI	_8157-CG/2.1	7.2		USGv6-	r1:Host+Core+SLAAC+Addr-Arch+Link=Ethernet	
[11] SUPPORTED	CAPABILITY	CONFORMANCE		INTEROPERABILITY/FUNCTIONAL		NOTES	
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID		
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F			
PASS	Core	Core_R1v1.*_C	UNH-IOL/37781	Core_R1v1.*_I	UNH-IOL/37783		
-	Extended-ICMP	Self-Test		Self-Test			
-	PLPMTUD	Self-Test		Self-Test			
-	ND-Ext	Self-Test		Self-Test			
-	ND-WL	Self-Test		Self-Test			
-	SEND	Self-Test		Self-Test			
PASS	SLAAC	SLAAC_R1v1.*_C	UNH-IOL/37781	SLAAC_R1v1.*_I	UNH-IOL/37783		
-	PriAddr	Self-Test		Self-Test			
-	DHCP- Stateless	DHCP- Stateless_R1v1 .*_C		DHCP- Stateless_R1v1 .*_I			
-	DHCP-Client	DHCP- Client_R1v1.*_C		DHCP- Client_R1v1.*_I			
-	DHCP-Client- Ext	Self-Test		Self-Test			
-	DHCP-Prefix	DHCP- Prefix_R1v1.*_C		DHCP- Prefix_R1v1.*_I			
-	DHCP-Prefix- Ext	Self-Test		Self-Test			
-	6Lo	Self-Test		Self-Test			

Host Capabilities

_	Happy-Eyeballs	Self-Test		Self-Test	
	appy Lycodiis	Adde		Adde	
PASS	Addr-Arch	Addr- Arch_R1v1.*_C	UNH-IOL/37782	Addr- Arch_R1v1.*_I	UNH-IOL/37784
-	CGA	Self-Test		Self-Test	
-	DNS-Client	Self-Test		Self-Test	
-	URI	Self-Test		Self-Test	
-	NTP-Client	Self-Test		Self-Test	
-	NTP-Server	Self-Test		Self-Test	
-	DNS-Server	Self-Test		Self-Test	
-	DHCP-Server	DHCP- Server_R1v1.*_C		DHCP- Server_R1v1.*_I	
-	DHCP-Server- Ext	Self-Test		Self-Test	
-	DHCP-Relay	DHCP- Relay_R1v1.*_C		DHCP- Relay_R1v1.*_I	
-	IPsec	IPsec_R1v1.*_C		IPsec_R1v1.*_I	
-	IPsec-SHA-512	IPsec-SHA- 512_R1v1.*_C		IPsec-SHA- 512_R1v1.*_I	
-	SSHV2	Self-Test		Self-Test	
-	TLS	Self-Test		Self-Test	
-	TLS-1.3	Self-Test		Self-Test	
-	Tunneling-IP	Self-Test		Self-Test	

Host Capabilities

-	Tunneling-UDP	Self-Test		Self-Test		
-	XLAT	Self-Test		Self-Test		
-	NAT64	Self-Test		Self-Test		
-	DNS64	Self-Test		Self-Test		
-	SNMP	Self-Test		Self-Test		
-	Tunneling	Self-Test		Self-Test		
-	DiffServ	Self-Test		Self-Test		
-	NETCONF	Self-Test		Self-Test		
-	SSM	Self-Test		Self-Test		
-	Multicast	Multicast_R1v1 .*_C		Multicast_R1v1 .*_I		
-	ECN	Self-Test		Self-Test		
PASS	Link = Ethernet	Self-Test	Self Declaration	Self-Test	Self Declaration	

Router Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY			
[11] SUPPORTED	CARARUTE	CONFOR TEST	MANCE RESULT ID	INTEROPERABILI TEST	TY/FUNCTIONAL RESULT ID	NOTES		
CAPABILITY -	CAPABILITY IPv6-ONLY	SELECTION		SELECTION IPv6- ONLY_R1v1.*_F				
-	Core	Core_R1v1.*_C		Core_R1v1.*_I				
-	Extended-ICMP	Self-Test		Self-Test				
-	PLPMTUD	Self-Test		Self-Test				
-	ND-Ext	Self-Test		Self-Test				
-	ND-WL	Self-Test		Self-Test				
-	SEND	Self-Test		Self-Test				
-	SLAAC	SLAAC_R1v1.*_C		SLAAC_R1v1.*_I				
-	PrivAddr	Self-Test		Self-Test				
-	DHCP-Prefix	DHCP- Prefix_R1v1.*_C		DHCP- Prefix_R1v1.*_I				
-	DHCP-Prefix- Ext	Self-Test		Self-Test				
-	6Lo	Self-Test		Self-Test				
-	Addr-Arch	Addr- Arch_R1v1.*_C		Addr- Arch_R1v1.*_I				
-	CGA	Self-Test		Self-Test				

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Router Capabilities

-	DNS-Client	Self-Test	Self-Test			
-	URI	Self-Test	Self-Test			
-	NTP-Client	Self-Test	Self-Test			
-	NTP-Server	Self-Test	Self-Test			
-	DNS-Server	Self-Test	Self-Test			
-	DHCP-Server	DHCP- Server_R1v1.*_C	DHCP- Server_R1v1.*_I			
-	DHCP-Server- Ext	Self-Test	Self-Test			
-	DHCP-Relay	DHCP- Relay_R1v1.*_C	DHCP- Relay_R1v1.*_I			
-	OSPF	Self-Test	OSPF_R1v1.*_I			
-	OSPF-IPsec	Self-Test	Self-Test			
-	OSPF-Auth	Self-Test	OSPF- Auth_R1v1.*_I			
-	OSPF-Ext	Self-Test	Self-Test			
-	OSPF-Trans	Self-Test	Self-Test			
-	OSPF-Graceful	Self-Test	Self-Test			
-	ISIS	Self-Test	Self-Test			
-	IS-IS-Auth	Self-Test	Self-Test			
-	IS-IS-Ext	Self-Test	Self-Test			
-	IS-IS-MT	Self-Test	Self-Test			
<u> </u>				_		

		Self-Test	BGP_R1v1.*_I	
-	BGP			
-	BGP-Reflect	Self-Test	Self-Test	
-	BGP-Graceful	Self-Test	Self-Test	
-	BGP-FlowSpec	Self-Test	Self-Test	
-	BGP-OV	Self-Test	Self-Test	
-	BGP-VPLS	Self-Test	Self-Test	
-	BGP-EVPN	Self-Test	Self-Test	
-	BGP-6VPE	Self-Test	Self-Test	
-	BGP-MVPN	Self-Test	Self-Test	
-	MPLS	Self-Test	Self-Test	
-	CE-Router	CE_Router_R1v 1.*_C	CE_Router_R1v 1.*_I	
-	VRRP	Self-Test	Self-Test	
-	IPsec	IPsec_R1v1.*_C	IPsec_R1v1.*_I	
-	IPsec-VPN	IPsec- VPN_R1v1.*_C	IPsec- VPN_R1v1.*_I	
-	IPsec-SHA-512	IPsec-SHA- 512_R1v1.*_C	IPsec-SHA- 512_R1v1.*_I	
-	IPsec-SHA-512- VPN	IPsec-SHA-512- VPN_R1v1.*_C	IPsec-SHA-512- VPN_R1v1.*_I	
-	SSHV2	Self-Test	Self-Test	
-	TLS	Self-Test	Self-Test	

-	TLS-1.3	Self-Test	Self-Test	
-	Tunneling-IP	Self-Test	Self-Test	
-	Tunneling-UDP	Self-Test	Self-Test	
-	GRE	Self-Test	Self-Test	
-	DS-Lite	Self-Test	Self-Test	
-	LW4over6	Self-Test	Self-Test	
-	MAP-E	Self-Test	Self-Test	
-	MAP-T	Self-Test	Self-Test	
-	XLAT	Self-Test	Self-Test	
-	NAT64	Self-Test	Self-Test	
-	DNS64	Self-Test	Self-Test	
-	6PE	Self-Test	Self-Test	
-	LISP	Self-Test	Self-Test	
-	SNMP	Self-Test	Self-Test	
-	Tunneling	Self-Test	Self-Test	
-	DiffServ	Self-Test	Self-Test	
-	NETCONF	Self-Test	Self-Test	
-	SSM	Self-Test	Self-Test	

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Router Capabilities

NIST.SP.500-281Ar1s

-	PIM-SM	Self-Test	Self-Test	
-	PIM-SM-IPsec	Self-Test	Self-Test	
-	PIM-SM-BiDir	Self-Test	Self-Test	
-	Multicast	Multicast_R1v1. *_C	Multicast_R1v1. *_I	
-	Multicast	Multicast_R1v1. *_C Self-Test		

Application Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11]	[11] CAPABILITY		RMANCE	INTEROPERABI	LITY/FUNCTIONAL	NOTES	
SUPPORTED		TEST	RESULT ID	TEST	RESULT ID		
CAPABILITY		SELECTION		SELECTION			
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F			
-	App-Serv=			APP- ONLY_R1v1.*_F			
-	Link =			Self-Test			

NPP Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11]	CAPABILITY	CONFOR		INTEROPERABILI		NOTES	
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID		
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F			
-	FW	FW_R1v1.*_C					
-	APFW	Self-Test					
-	IDS	FW_R1v1.*_C					
-	IPS	FW_R1v1.*_C					
-	Link =	Self-Test					

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Switch Capabilities

[10] PRODUC	T ID/ STACK ID					CAPABILITY SUMMARY		
[11]	CAPABILITY	CONFOR	MANCE	INTEROPERABILIT	TY/FUNCTIONAL			
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID	NOTES		
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F				
-	DHCPv6-Guard	Self-Test		Self-Test				
-	RA-Guard	Self-Test		Self-Test				
-	MLD-Snooping	Self-Test		Self-Test				
-	Link =	Self-Test		Self-Test				

1	CONTACT INFORMATION	Supplier name, email and signature (digital recommended). Include printed name and date if wet ink signed. Accredited laboratory name, email and signature (digital recommended). Include printed name and date if wet ink signed.
2	PRODUCT VERSION TESTED	Firmware/ software version of product declared
3	PRODUCT ID	Suppliers concise name for product declared
4	PRODUCT FAMILY	Applicable hardware or software with an unmodified IPv6 stack from "PRODUCT VERSION TESTED"
5	UNITARY OR COMPOSITE	Indicate if this is a unitary or composite SDoC. If composite is checked, composite SDoC must be linked in section 6.
6	REF	Reference number to profile(s) reference in this SDoC
	SUPPLIER	Supplier name
	PRODUCT ID/STACK ID	Product ID must match field 3. As there may be more than one unique IPv6 stack, stack ID identifies particular stack described in CAPABILITY SUMMARY. Each unique stack requires a CAPABILTY SUMMARY.
	CAPABILITY SUMMARY	The strong notation as described in NIST-SP-500-267Ar1 that describes the product capabilities of the given stack.
	COMPOSITE SDOC LINK	URL link to composite SDoC referenced.
7	USGV6-CAPABLE REQUIREMENTS	Refer to section 5 in NIST-SP-500-267Br1 for CSS strings referenced in this section. Check the appropriate box if the product meets the requirements.
8	PROFILE(S) REFERENCED	Profile(s) referenced in the SDoC.
9	SUPPLEMENTARY ATTESTATIONS	Attestations made by the supplier. Check all that apply.
10	PRODUCT ID/STACK ID	PRODUCT ID/STACK ID for stack documented on given page.
	CAPABILITY SUMMARY	CAPABILITY SUMMARY for stack documented on given page.
11	SUPPORTED CAPABILITY	"PASS" – All requirements of the capability have been met
		"NOTES" – See notes for details regarding the level of support for this capability
		"X" – Capability not supported
		BLANK – No declaration for this capability
	CAPABILITY	IPv6 Capability as described in NIST-SP-500-267Ar1.
	TEST SELECTION	Test Selection Tables version of capabilities with existing test programs. Capabilities without an existing test program are indicated with "Self-Test"
	RESULT ID	Abbreviation of accredited laboratory and unique identifier of test result. Capabilities with "Self-Test" can be self-declared writing "Self Declaration" in the cell.
	NOTES	The cell must be filled out if "NOTE" is indicated for SUPPORTED CAPABILITY. Suppliers may use notes to clarify unsupported features or non-passing results.

SUPPLIER GENERAL NOTES