

# HOHUNET LightLink PLATFORM

## 性能规格表

高性能交换硬件平台

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## 平台简介

LightLink平台是专为边缘计算和人工智能时代对极低延迟/抖动、全面端到端隧道网络和日益增长的需求而打造的以太网交换平台。LightLink平台提供卓越灵活的I/O连接能力，支持下行千兆上行10G端口速率。

## 关键特性

- 以太网功能表：MAC table, Vxlan, IPFIX, ACL, EVC等等
- 丰富的2层/3层协议
- 丰富的OAM
- 安全特性集
- 时钟协议

## 性能规格表

表 1：LightLink平台性能规格表

类	描述	值
Ethernet Basic		
Jumbo Frame	Maximum jumbo frame size	9600
Unicast MAC	MAC address capacity	Default profile: 73728
		IPv6 profile: 61440
		Layer3 profile: 61440
		MPLS profile: 73728
		MAC learning rate (SW)
	MAC learning rate (HW)	> 10Gbps
	Blackhole MAC address capacity	128
Multicast MAC	MAC address capacity	Default profile: 2048
		IPv6 profile: 1024
		Layer3 profile: 1024
		MPLS profile: 2048

表 1: LightLink平台性能规格表 (续)

类	描述	值
Ethernet Basic		
VLAN	VLAN IDs	4094
	VLAN instances	4094
	VLANs to enable statistics	255
VLAN Mapping	Maximum mapping table	64
	Maximum rules number	1024
EVC	Maximum EVC number	4094
Link Aggregation (Static & LACP)	Maximum member number per group	No limitation
	Maximum Group Num	64
	Load balance key mode	static/dlb/rr/self-healing
	Convergence time	< 50ms
VLAN Classification	Maximum rule number	4096
	Maximum group number	1
	Base MAC capacity	512
	Base IPv4 capacity	448
	Base IPv6 capacity	32
	Base protocol capacity	7
Ethernet Ring Protection		
STP	Convergence time	< 30s
RSTP	Convergence time	< 1s
MSTP	Instance number	64
	Convergence time	< 1s
ERPS	Domain number	16
	Ring number	1 Primary ring/domain
		2 Sub ring/domain
	Protection instance number per Ring	64
	Switchover time	< 50 ms

表 1: LightLink平台性能规格表 (续)

类	描述	值
Ethernet OAM		
	Maximum session number	1024
	Maximum domain number	8
	CCM interval types	7
CFM (802.1ag)	CCM minimum interval	3.3ms
	Maximum down MEP number	1024
	Maximum up MEP number	1024
	Maximum LMEP number	1024
IPv4 Unicast		
		Default profile: 10240
ARP	ARP capacity	IPv6 profile: 6144
		Layer3 profile: 12288
		MPLS profile: 10240
		Default profile: 16384
IPv4	FIB	IPv6 profile: 12288
		Layer3 profile: 32768
		MPLS profile: 16384
ECMP	ECMP group	240 (Share with IPv6)
PBR	Policy route map	64
	Policy based routing ACE	256
OSPF	Maximum static neighbors	256
	Maximum summary address	2048
IPv4 Multicast		
		Default profile: 2048
		IPv6 profile: 1024
IPMC	Multicast routing table	Layer3 profile: 2048
		MPLS profile: 1024
	Multicast routing downstream interfaces	Default profile: 4096

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类	描述	值
IPv4 Multicast		
IPMC	Multicast routing downstream interfaces	IPv6 profile: 2048
		Layer3 profile: 5120
		MPLS profile: 2048
IGMP Snooping	Maximum groups number	2048
	Maximum member number	N/A
MVR	Maximum group number	Default profile: 2048
		IPv6 profile: 1024
		Layer3 Profile: 2048
	Maximum member number	MPLS profile: 1024
		Default profile: 4096
		IPv6 profile: 2048
		Layer3 profile: 5120
		MPLS profile: 2048
IPv6 Unicast		
Host Route	NDP capacity	Default profile: 2048
		IPv6 profile: 4096
		Layer3 profile: 0
		MPLS profile: 2048
IPv6	FIBv6	Default profile: 2048
		IPv6 profile: 6144
		Layer3 profile: 0
	ECMP group	MPLS profile: 1024
		240 (share with IPv4)
IPv6 Multicast		
IPMC	Multicast routing table	Default profile: 256
		IPv6 profile: 512
		Layer3 Profile: 0
		MPLS profile: 0

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类	描述	值
IPv6 Multicast		
IPMC	Number of interfaces that support multicast routing table	Default profile: 512
		IPv6 profile: 1024
		Layer3 Profile: 0
		MPLS profile: 0
MVR V6	Maximum entry number	Default profile: 256
		IPv6 Profile: 512
		Layer3 Profile: 0
		MPLS profile: 0
	Maximum member number	Default profile: 512
		IPv6 profile: 1024
		Layer3 Profile: 0
		MPLS profile: 0
IP tunnel		
IP Tunnel	Tunnel peer capacity	8
QoS		
Per-port Queue Number	Unicast queue	10
	Multicast queue	10
	Monitor queue	10
Packet Buffer	System packet buffer capacity	3MByte
Granularity	Policer granularity	0~2M: 10K
		2M~100M: 40K
		100M~1G: 80K
		1G~2G: 120K
		2G~4G: 250K
		Queue shape granularity
	Port shape granularity	10k
Flow Entry	Ingress port QoS ipv4 flow entries	1532

表 1: LightLink平台性能规格表 (续)

类	描述	值
QoS		
Flow Entry	Ingress port QoS ipv6 flow entries	1532
	Ingress port QoS flow statistics entries	32
ACL		
MAC ACL	Ingress port ACL for MAC	Default profile: 2926
		IPv6 profile: 2926
		Layer3 profile: 2976
		MPLS profile: 2976
	Ingress VLAN ACL for MAC	Default profile: 2926
		IPv6 profile: 2926
		Layer3 profile: 2976
		MPLS profile: 2976
	Egress port ACL for MAC	Default profile: 878
		IPv6 profile: 878
		Layer3 profile: 928
		MPLS profile: 928
Egress VLAN ACL for MAC	Default profile: 878	
	IPv6 profile: 878	
	Layer3 profile: 928	
	MPLS profile: 928	
IPv4 ACL	Ingress Port ACL for IPv4	Default profile: 2926
		IPv6 profile: 2926
		Layer3 profile: 2976
	Ingress VLAN ACL for IPv4	MPLS profile: 2976
		Default profile: 2926
		IPv6 profile: 2926
		Layer3 profile: 2976
		MPLS profile: 2976

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类	描述	值
ACL		
IPv4 ACL	Egress Port ACL for IPv4	Default profile: 878
		IPv6 profile: 878
		Layer3 profile: 928
		MPLS profile: 928
IPv4 ACL	Egress VLAN ACL for IPv4	Default profile: 878
		IPv6 profile: 878
		Layer3 profile: 928
		MPLS profile: 928
IPv6 ACL	Ingress Port ACL for IPv6	Default profile: 2926
		IPv6 profile: 2926
		Layer3 profile: 2976
		MPLS profile: 2976
IPv6 ACL	Ingress VLAN ACL for IPv6	Default profile: 2926
		IPv6 profile: 2926
		Layer3 profile: 2976
		MPLS profile: 2976
IPv6 ACL	Egress Port ACL for IPv6	Default profile: 878
		IPv6 profile: 878
		Layer3 profile: 928
		MPLS profile: 928
IPv6 ACL	Egress VLAN ACL for IPv6	Default profile: 878
		IPv6 profile: 878
		Layer3 profile: 928
		MPLS profile: 928
ACL Flow Statistics	Ingress ACL flow statistics entries	Default profile: 255
		IPv6 profile: 255
		Layer3 profile: 255
		MPLS profile: 255

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类	描述	值
ACL		
ACL Flow Statistics	Egress ACL flow statistics entries	Default profile: 255
		IPv6 profile: 255
		Layer3 profile: 255
		MPLS profile: 255
CoPP	CoPP rules	250
	CoPP flow statistics entries	58
UDF	UDF rules	256
	UDF flow stats entries	16
Security		
IP Source Guard	IPv4 maximum rules number	Default profile: 768
		IPv6 profile: 512
		Layer3 profile: 512
	IPv6 maximum rules number	MPLS profile: 512
		Default profile: 64
		IPv6 profile: 128
		Layer3 profile: 0
		MPLS profile: 0
802.1x Base MAC	Maximum entries	512
DHCP Snooping	Maximum bound entry	4096
IPFIX		
IPFIX	IPFIX member	4096
Reliability		
BFD	Maximum session number	Share 128
S-BFD	Maximum session number	Share 128
VRRP	Maximum group number	63
Smart Link	Maximum group number	16
	Maximum instance number	64
	Switchover time	<50ms

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类	描述	值
Reliability		
Monitor Link	Maximum group number	16
	Maximum up-link number per group	24
Data Center		
VARP	Virtual IP number per port	15
VXLAN	VXLAN tunnel	Default profile: 6144
		IPv6 profile: 6144
		Layer3 profile: 6144
	VNI	MPLS profile: 2040
		Default profile: 2000
		IPv6 profile: 2000
	VTEP peer	Layer3 profile: 2000
		MPLS profile: 1000
		Default profile: 2048
		IPv6 profile: 2048
VTEP peer	Layer3 profile: 2048	
	MPLS profile: 256	

## LightLink平台支持型号

表 2: LightLink平台支持型号

系列	型号	描述
S3700	S3748-6X-EI	48 x 1G BaseT,6 x 10G SFP+ 三层以太网交换机 2*CRPS 75W, 3*热插拔风扇模组
	S3748-6X-SI	48 x 1G BaseT,6 x 10G SFP+ 三层以太网交换机 1*固定电源60W, 3*固定内置风扇
	S3748PB-6X-EI	48 x 1G BaseT (PoE++ 90W),6 x 10G SFP+ 三层以太网交换机 2*CRPS 900W, 3*热插拔风扇模组
	S3748P-6X-SI	48 x 1G BaseT (1-4prot PoE++,5-48port PoE+),6 x 10G SFP+ 三层以太网交换机 1*固定电源780W, 4*固定内置风扇
	S3724-6X-EI	24 x 1G BaseT,6 x 10G SFP+ 三层以太网交换机 2*CRPS 75W, 2*固定内置风扇
	S3724-6X-SI	24 x 1G BaseT,6 x 10G SFP+ 三层以太网交换机 1*固定电源60W, 2*固定内置风扇
	S3724PB-6X-EI	24 x 1G BaseT(PoE++90W),6 x 10G SFP+ 三层以太网交换机 2*CRPS 600W, 3*热插拔风扇模组
	S3724P-6X-SI	24 x 1G BaseT (1-4prot PoE++,5-24port PoE+),6 x 10G SFP+ 三层以太网交换机 1*固定电源450W, 4*固定内置风扇
	S3724S-8G6X-EI	16 x 1G SFP,8 x 1G BaseT,8 x 1G SFP Combo,6 x 10G SFP+ 三层以太网交换机 2*CRPS 75W, 3*热插拔风扇模组
	S3724S-8G6X-SI	16 x 1G SFP,8 x 1G BaseT,8 x 1G SFP Combo,6 x 10G SFP+ 三层以太网交换机 1*固定电源60W, 3*固定内置风扇
S3708P-2X-SI	8 x 1G Base-T (PoE+30W),2 x 10G SFP+ 三层以太网交换机 2*固定电源150W/24W, 1*固定内置风扇	

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