

100G Bypass Protection Device

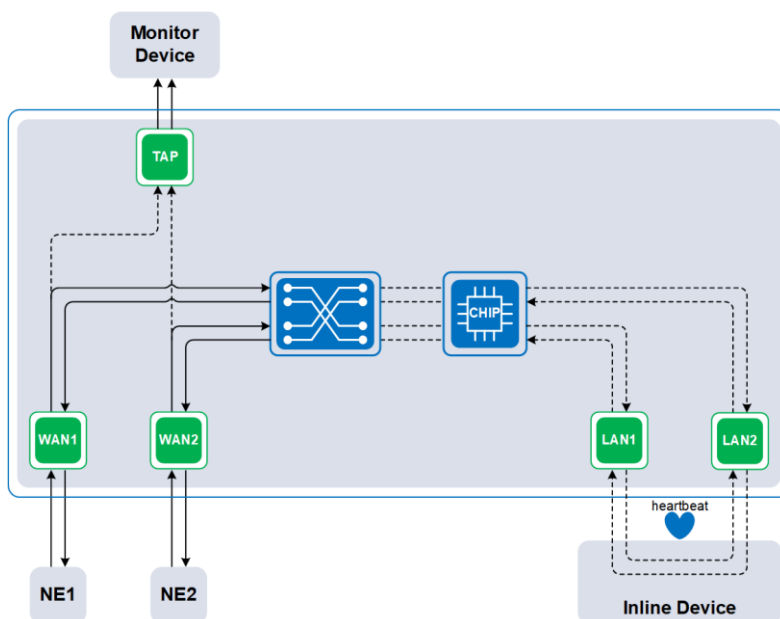
Guangzhou Sintai Communication Co., Ltd. launched the 100G Bypass protection device is used for network line protection, the device is connected in series in the optical port Ethernet link, with active and passive Bypass function, in the inline system failure or maintenance to keep the integrity of the network connection, supports intelligent switching of all kinds of gateway devices (e.g., firewalls, IDPs, UTMs, intrusion prevention systems, spam gateways, dedicated network auditing devices, etc.).

Product Features

- Pluggable modular design, all components support hot swapping
- Single device supports 4 pairs of 100G link access Bypass capability
- TAP interface with splitter function to provide link data mirroring
- With optical power amplification protection function, provide the original link optical power amplification at the same time can be amplified link Bypass protection
- Supports three switching/protection modes: K0 hard pass-through, K1 soft forwarding and mirroring, and K2 soft forwarding and serial connection.
- Hard switching time <5ms, soft switching supports no packet loss on external links
- Soft forwarding state supports high-speed non-blocking full wire-speed processing capability
- Supports panel physical switches to toggle link state
- Supports link hold mode, which maintains the set state regardless of changes in the link state
- Supports service module heartbeat monitoring function
- Supports port optical power monitoring, packet statistics
- With ACL rule matching function, support for the winning traffic forwarding or passthrough
- Dual power supply redundant backup design, power modules can be hot-swappable, support for AC 90~260V, DC -36 ~ -72V power supply options Dual-fan redundant backup design with hot-swappable fan modules
- With CLI, SNMP and other management functions, support open API interface management.



Functional Structure



Product Specification

Indicator name		Parameters
Number of 100G link accesses		4 pairs
100G Link optical module standard		100GBASE-LR4
Link interface	Standard mode WAN interface	8 pairs of LC interfaces (every 2 pairs access 1 external bidirectional link)
	Low light mode WAN interface	8 pairs of LC interfaces (every 2 pairs access 1 external bidirectional link)
	TAP interface	4 pairs of LC interfaces (each pair outputs 1 external bidirectional link mirroring optical signal)
	LAN interface	8 QSFP28 100G optical interfaces (1 pair of local bi-directional links in series of 2)
Link protection mode	K0 mode	Hard passthrough mode, in which the physical link to the WAN interface is passthrough through a physical switching device;
	K1 mode	Soft forwarding and mirroring mode, that is, through the control chip to the WAN interface between the packet corresponds to forwarding to achieve straight-through
	K2 mode	Soft forwarding and concatenation mode, i.e., packets are concatenated and forwarded between the WAN and LAN interfaces via the control chip
Input optical power	Standard mode WAN interface	+4.5 ~ +10dBm
	Low light mode WAN interface	-6 ~ +10dBm
	LAN interface	-6 ~ +10dBm
External link insertion loss	K0 mode	<4.5dB
	K1 mode	<10.3dB (input) <2dB (output)
	K2 mode	<10.3dB (input) <2dB (output)
	TAP interface	<10.3dB
Cutoff time	K0 mode <-> K1/K2 mode	<5ms

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	K1 mode <-> K2 mode	No packet loss on external links
Management interface		<ul style="list-style-type: none"> ● 2 x 10/100/1000M Adaptive RJ45 network ports ● 1 RJ45 type CONSOLE port ● Hot-swappable main control board
Management style		<ul style="list-style-type: none"> ● CLI command line ● SNMP ● Open API interface
Power supply method		<ul style="list-style-type: none"> ● AC: 90 ~ 260 V, DC: -36 ~ -72 V, high voltage DC optional ● Standard CPRS power supply 1+1 hot backup
Heat dissipation method		<ul style="list-style-type: none"> ● Forward airflow, rear airflow ● 1+1 fan unit backup, hot-swappable
Operating temperature range		0℃~50℃
Operating humidity range		5%~85% non-condensing
Storage temperature		-40℃~85℃
Equipment size		1U: 44 mm (H) x 444 mm (W) x 490 mm (D)
Installation		19-inch cabinet with 800mm depth or more
Weight		12kg
Power consumption		<300W