

知MSR5680电源配置较低引起HMIM卡abnormal故障

电源其他硬件相关以太网接口周奇天2024-11-25 发表

告警信息

%Nov 12 15:27:28:199 2024 H3C DEV/2/SUBCARD_FAULT: Subcard state changed to Fault on slot 6 subslot 5, type is unknown.
%Nov 12 15:30:29:799 2024 H3C DEV/2/SUBCARD_FAULT: Subcard state changed to Fault on slot 6 subslot 5, type is unknown.

问题描述

安装HMIM-8GSW板卡，只能识别一块，后插的板卡为abnormal，支持的槽位都测试过，都是这个现象，如下图所示

Slot 5: RT-SFE			
Subslot No.	Board Type	Status	Max Port
0	Fixed SubCard on Board	Normal	0
2	HMIM-8GSWF	Normal	8
8	HMIM-8GSW	Normal	8

Slot 6: RT-SFE			
Subslot No.	Board Type	Status	Max Port
0	Fixed SubCard on Board	Normal	0
1	HMIM-8SAF-V2	Normal	8
5	Unknown	Abnormal	Unknown

已经插有3块子卡，后插的第四块不管在哪个槽位插入都是abnormal

过程分析

查看官网手册，在当前X1主控下，上述子卡并无数量限制

仔细查看诊断信息，发现有一个电源fail

=====display power-supply verbose=====

Index	Status	Type	Descriptio
PWR1	normal	AC	PSR300-12A2
PWR2	fail		
PWR3	absent		
PWR4	absent		

System power capacity: 300W

Remaining power for HMIM: 50W

从上述回显可知在300W电源下仅剩50W给HMIM子卡，查询官网手册这4块子卡功率，8+8+22+6为44W，逼近50W，在单电源下会发生可能会发生不稳定现象，后插的子卡无法正常使用

解决方法

判断是电源配置过低，售前给出满配4个300W电源方案，满配后问题解决