

光纤损耗预算

Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Conventions](#)

[光学传输功率和接收灵敏度光纤连接器表的](#)

[Related Information](#)

[Introduction](#)

本文为光纤连接器提供光学传输功率和接收灵敏度在多种路由器和交换机接口。这些编号可以用于在[ATM接口处理器\(AIP\)文档](#)的“评估功率预算”部分解释的计算。(当您查看AIP文档，请使用您的浏览器的" Find "功能找出本文的期望部分。)

Note: AIP文档使用术语PT (最低的发射机功率)和PRS (最低的接收器灵敏度)。在本文中，"传送 dbm min " column等于PT，并且"接收dbm min " column等于PRS。

[Prerequisites](#)

[Requirements](#)

There are no specific requirements for this document.

[Components Used](#)

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment.All of the devices used in this document started with a cleared (default) configuration.If your network is live, make sure that you understand the potential impact of any command.

[Conventions](#)

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

[光学传输功率和接收灵敏度光纤连接器表的](#)

| | | | | |
|----|----|----|----|------|
| 标准 | 光纤 | 传输 | 接受 | 距离目标 |
|----|----|----|----|------|

| | | (db m) | | (db m) | | | |
|-------------------------------------------------|-----------|------------|-----|-----------|-----|----------|-------------|
| | | 最大 | 分钟 | 最大 | 分钟 | km | |
| ISO/IEC 9314-3 | MM | -14 | -20 | -14 | -31 | 2 | |
| | SM CAT I | -14 | -20 | -14 | -31 | 14 | |
| | SM CAT II | 0 | -4 | -15 | -37 | 58 | |
| 设备 | 光纤 | 类型 | 连接器 | 传输 (db m) | | 接受 (dbm) | |
| | | | | 最大 | 分钟 | 最大 | 分钟 |
| Catalyst 1900c , Catalyst 2820 | MM | 100 BaseFX | SC | -14 | -19 | -14 | -33.5 |
| Catalyst 3000 | SM | OC-3 | SC | -8 | -14 | -8 | -32.5 |
| | MM | OC-3 | SC | | | | |
| | MM | 100 BaseF | SC | | | | 全双工2;半双工0.4 |
| | MM | 10BaseF | SC | | | | 2 |
| | MM | 100VG | SC | | | | |
| Catalyst 5000 Catalyst 2900 (非XL) Catalyst 2926 | MM | 10baseFL | ST | -12 | -20 | -12 | -32.5 |
| | SM | OC-3 | SC | -8 | -14 | -8 | -32.5 |
| | MM | OC-3 | SC | -14 | -19 | -14 | -32.5 |

| | | | | | | | | |
|--------------------------------|----------|----------|-----|---------|---------------|---------|---------|------|
| | SM | FDD I | ST | -4 | -7 | -1 4 | -3 3 | 30 |
| | MM | FDD I | MIC | -1 4 | -1 8. 5 | -1 4 | -3 4 | 2 |
| Cisco 1100集中器 Cisco 1400集中器 | SM | FDD I | ST | -4 | -7 | -1 4 | -3 3 | 30 |
| | MM | FDD I | MIC | -1 4 | -1 8. 5 | -1 4 | -3 4 | 2 |
| Cisco4000 NPs | SM | FDD I | MIC | -1 4 | -2 0 | -1 4 | -3 1 | 10 |
| | MM | FDD I | MIC | -1 0 | -1 6 | -1 0 | -2 7 | 2 |
| | SM | OC-3 | SC | -8 | -1 8. 5 | -1 4 | -3 0 | 15 |
| | SM LR | OC-3 | SC | | -3 | | -3 6 | 20 |
| | MM | OC-3 | SC | | -1 5 | | -2 8 | 3 |
| AIP | SM | OC-3 | ST | -8 | -1 5 | -1 4 | -3 1 | 14.8 |
| | MM | OC-3 | SC | -1 4 | -2 0 | -1 4 | -3 0 | 2.4 |
| | SM | 大溪 | ST | -1 4 | -2 0 | -1 4 | -3 1 | |
| | MM | 大溪 | MIC | -1 0 | -1 6 | -1 0 | -2 7 | 2 |
| FDDI接口处理器(FIP) AGS+ FDDI贴花 | SM | FDD I | ST | -1 4 | -2 0 | -1 4 | -3 1 | 10 |
| | MM | FDD I | MIC | -1 0 | -1 6 | -1 0 | -2 7 | 2 |
| ATM端口适配器 | SM | OC- | SC | - | - | - | - | |

| | | | | | | | | |
|------------------------|-------------|-------|-----|-----|-------|-----|-----|-----|
| (PA) (ATM LITE) | | 3 | | 8 | 15 | 8 | 31 | |
| | MM | OC-3 | SC | -14 | -20 | -14 | -30 | |
| 快速以太网PA | MM | FE | SC | | | | | |
| FDDI PA | SM | FDD I | SC | -14 | -19 | -14 | -31 | 15 |
| | MM | FDD I | MIC | -14 | -19 | -14 | -31 | 2 |
| 信息包OC-3接口处理器 (POSIP) | SM IR | OC-3 | SC | -8 | -15 | -8 | -31 | 15 |
| | MM | OC-3 | SC | -14 | -18.5 | -14 | -30 | 3 |
| Cisco 12000 | SM IR | OC-3 | SC | -8 | -15 | -8 | -28 | 15 |
| | MM | OC-3 | SC | -14 | -20 | -14 | -26 | 0.5 |
| | SM IR | OC-3 | SC | -8 | -15 | -8 | -31 | 15 |
| | MM | OC-3 | SC | -14 | -20 | -14 | -26 | 0.5 |
| Lightstream 100 ATM交换机 | 155-Mbps SM | OC-3C | SC | -8 | -15 | 0 | -34 | |
| | 155-Mbps MM | OC-3C | SC | | | | | |
| | 100-Mbps MM | 大溪 | MIC | | | | | |
| LightStream1010 ATM交换机 | SM IR | OC-3 | SC | -8 | -15 | -8 | -30 | 15 |
| | SM IR+ | OC-3 | SC | -3 | -8 | -3 | -32 | 30 |
| | SM LR | OC-3 | SC | 0 | -5 | 10 | -30 | 40 |

| | | | | | | | | |
|------------------------------------------------------|------------------|---------------|-------|-----|------|-----|-----|----------|
| | MM | OC-3 | SC | -14 | -20 | -14 | -30 | 2 |
| | SM IR | OC-12 | SC | -8 | -15 | -8 | -28 | 15 |
| | SM LR | OC-12 | SC | 2 | -3 | -8 | -28 | 40 |
| | MM | OC-12 | SC | -14 | -20 | -14 | -26 | 0.5 |
| Catalyst 8540MSR ATM交换机 | SM IR | OC-12 | SC | -8 | -14 | -3 | -28 | 15 |
| | MM | OC-12 | SC | -14 | -20 | -14 | -26 | 0.5 |
| HP千兆以太网转换器(GBIC) HFBR-5601 Cisco现场可换部件(FRU) WS-G5484 | 62.5/125um MM SR | 100Base-SX | SC | -4 | -10 | 0 | -17 | 220/275米 |
| | 50/125um MM SR | 100Base-SX | SC | -4 | -10 | 0 | -17 | 550米 |
| HP GBIC HFCT-5611 1 Cisco FRU WS-G5486 | 62.5um MM LR | 100Base LX/LH | SC | -3 | -9.5 | -3 | -19 | 550米 |
| | 50um MM LR | 100Base LX/LH | SC | -3 | -9.5 | -3 | -19 | 550米 |
| | 9/125um SM LR | 100Base LX/LH | SC | -3 | -9 | -3 | -19 | 10 |
| Catalyst 8510 | MM | 100BaseFX | SC | -8 | -15 | -8 | -28 | .5 |
| Catalyst 8540 | MM | 100BaseFX | MT-RJ | -8 | -15 | -8 | -28 | .5 |

Note:

¹所有GBIC甚而以多模光纤使用等级1激光。需要模式调节电缆(MCC)，当使用多模光纤以所有LX/LH GBIC时。所有这些GBIC有一最低的电缆长度两米。

[Related Information](#)

- [ATM技术支持页](#)
- [LAN & ATM交换机产品支持页面](#)
- [Cisco 12000 Series Internet Routers技术支持页](#)
- [Technical Support - Cisco Systems](#)