

华为AAU3240有源天线单元4G小基站。

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| 产品名称 | 华为AAU3240有源天线单元4G小基站。 |
| 公司名称 | 山东格伦德电源科技有限公司 |
| 价格 | 280.00/台 |
| 规格参数 | |
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产品详情

华为AAU3240有源天线单元,4G小基站

HISILICON SEMICONDUCTOR Huawei Confidentialia 华为 Easy
Macro(AAU3240)产品说明书_计算机硬件及网络 /叶计算机专业资

料。AAU3240产品说明书AAU3240产品说明书文档版本华为meto1000是华为的一款光传输设备,原来叫155/622H,群路为155Mbt/光

口或622Mbt/s光口。支路为2Mbit/电口或10M/100MR45型网口。该设备不支持25Gbit/s光口和10Gb/s光口。一般用在接入网上,如基

站传输的接入服务

比它等级高的是华为meto3000,原来叫opt × 2500+,群路高速率支持25Gbt/s光口,是仿的Lucent的ADM16/1设备,技术相当成

熟,现网中运行的很多

比它等级还低的是华为 metro100,主要用在银行、税务等的营业厅和ATM(自动提款机)的接入服务上

这种设备非常简单,一般直接安装在小机房的综综合柜中,综合柜一般是600mm(宽度)*300mm(深度)*2000m m(高度,根据机房走线

架高度稍有差异)的柜子,里面有架顶直流电源分配开关(空开),有DDF(数字配线架)端子板,有ODF(光纤配线架,含熔纤盘)子架

根据实际情况又是还有FE-

DDF(以太网数字配线架)。综合柜的架顶电源是从机房的列头柜或开关电源直接引过来的。安装 metro1000时

直接把它安装在综合柜里,然后从综合柜架顶电源模块引接一主(工作地、48V)一备(工作地、-48V)和一条保护地线共计五条电源线。然

后将它的支路业务板上的2M线引接到综合柜里的DDF端子上,将10M100M网线引接到 FE-DDE上,将四条群路尾纤(东向和西向各一个群

路光口,每个光口包括一收和一发两条尾纤)引接到ODF子架,接到外线光缆上,这样就完成了硬件安装工作。接下来就是设备加电调测了。

age3Page3站点新革命AAU3240,简约而不简单传统方案创新方案子?华为创新筒型基站设计仅3个

AAU称做有源天线单元,在多个频段组网下,传统方式需要选择两个RU连接到一个无源天线,采用AAU后,2个RRU集成到天线中,形

成有源天线单元AAU。

国内三大运营商经过十多年从2G到3G移动网络建设、升级、改造,相当数呈的站点空间变得越来越紧张,新设备的增加将极大加重运

营商的建站和运维成本,为满足日益增长的移动竞带应用,需要运营商能迅速扩充网络容量以满足业务增长。当前国内LTE建设迅速起步,需

要在现有的移动站点基础上,再加入一层LTE(FDD和TDD)网络,对站点机房空间,天面位置都提出了新的要求,据华为内部调查和经验

大部分一线和二线城市45%左右的站点天面空间拥挤,无法新增独立天线。在多频多模建网模式下,如何高效利用有限的站点资源,进一步提

升网络容量,为用户提供更好的宽带业务体验,成为各运营商面临的主要挑战。

以华为AAU为代表的有源天线解决方案,正在逐步成为行业的趋势。从90年代的GSM宏基站,到2004年华为首先推出分布式基站,华为

直通过基站形态的创新适应移动网络建设,在移动竞带MBB时代,需要进一步提升网络性能、解决天面获取难题的困扰,华为正在引领行业

推动有源天线标准化

AAU称做有源天线单元,如下图1所示,在多个频段组网下,传统方式需要选择两个RRU连接到一个无源天线,采用AAU后,2个RRU集

成到天线中,形成有源天线单元AAU。

图1RRU和天线集成于一体的AAU

对于一个已有RU和天线的站点,如果要增加LTE业务,将需要新增加一套新的RRU、天线、以及相关的附件,而华为的AAU解决方案可

以将新频段的LTE RRU集成在AAU内部,同时集成原来的两副天线,如下图2所示。

华为的AAU,有效整合运营商的天面资源,简化了天面配套要求,将射频单元与天线合为一体,减小馈线损耗,

增强了覆盖效果,更加适

合多频段多制式组网的需求,有效保护了运营商比机房更重要的核心资产--天面资源。采用AAU解决方案后,整个天面变得简洁、可靠、稳

定,带来的好处有

部署方便,节省空间,AAU尺寸和单频天线相当,降低选址和物业协调难度,同时集束线缆设计,AAU与原AAU连接仅需4根馈线。在节

省70%的空间下,能够获得30%到70%的容量增益。

管理效率高,AAU本身支持多种电调模式,手动、近端、远端都可以方便地对天线进行调整,远端方式通过A ISG接口实现和远端网管通

信免进站,免上塔,提升维护效率可以实时调整,避免业务中断。

省钱省时,实现快速建设,通过一次部署,降低了物业协调难度,能够极大地减少抱杆、土建及楼面的租金成本,减少安装工程成本,据

测算,采用AAU能够减少30%的站点建设成本。

华为的AAU可集成两个不同频段的射频单元以及天线,集成度是业界同类产品的2倍,帮助运营商平滑演进到HSPA+、LTE以及LTE-Adva

nced而无需新增射频单元或天线,每个站点大可以节省巧5%的模块数量,也是业界一能够支持 4×4 MM 封频模块的产品并支持波束成

型技术,可实现85%的容量提升。

AAU解决方案,不仅是对基站架构、天面安装方式的创新,而且反映AAU产品稳定性、可靠性达到了相当的水平。AAU作为高度集成的产

品,安装位置又很特别,要求其内部有源模块必须达到非常高的可靠性。华为将其十多年对RU的长期研究、改进的经验与严格的生产质量控

制结合起来,使得AAU具备很高的稳华为AAU3240有源天线单元价格及参数,4G小基站定性和可靠性,确保AAU上塔后能够在恶劣环境下长

期工作华为已经与国内和海外运营商合作,在多地进行了测试和验证了AAU解决方案,网络容量增益达到85%,能够适配各种无线建网场景

提升网络建设效益。华为无线GSM/UMTS/LTE产品线总裁应为民说:“目前20%的热点地区承载了80%的移动竞带网络容量。华为AAU

解决方案致力于帮助运营商简化热点地区的站点建设,并大幅度提升MBB网络容量,帮助运营商解决长期的容量演进需求。

不久前,云南铁塔与南方电网云南公司(以下简称“云南电网”)签署了共享铁塔合作协议—双方将在云南电网的电力输电塔杆上加装

通信基站,并逐步拓展共享合作领域。本次共享铁塔协议的签署打破了国内省级企业间“共享铁塔”的空白,并为国内跨行业间的资源整合共

享提供了范例,各大媒体争相报道,引发网友热议。许多网友纷纷表示对此次共享铁塔的普及十分期待,但同时,网上也存在一些质疑,矛头

直指“共享”。

共享电力塔安全问题如何保?

安全性问题是广大网友为担忧的问题。在电力塔上加挂通信基站设备是否安全?通信基站维护过程中安全如何保障?甚至有网友提出雨天

是否存在漏电风险的疑问。针对安全性问题,云南铁塔建设部经理李浩表示,广大网友大可放心。“每个塔都有一个安全距离,上塔在安全距

离范围内作业是可以保证人身安全的。同时,电力塔属于高耸结构,国家对该类设施都有严格的接地要求,可以确保人员的安全。”此外,云

南电网相关负责人在接受记者采访时也指出,在设计过程中,考虑到安全因素,结合挂靠高度,通信基站挂靠位置符合要求,既能保证不发生

触电事故,也能保证设备达到通信要求的相应高度。简言之,通信基站加挂位置处于电力塔安全距离范围,因此安全问题能够得到保障。

Shandong Glender Power Supply Technology Co., Ltd.

Huawei AAU3240 Active Antenna Unit, 4G Small Base Station

HISILICON SEMICONDUCTOR Huawei Confidentialia Huawei Easy Macro (AAU3240) Product Description
Computer Hardware and Network II/Ye Computer Professional Funds

Material. AAU3240 Product Instructions AAU3240 Product Instructions Document Version Huawei meto 1000 is Huawei's optical transmission equipment, originally called 155/622H, group road 155 Mbt/light.

Port or 622Mbt/s optical port. The branch is 2Mbit/port or 10M/100MR45 network port. The device does not support 25Gbit/s and 10Gb/s optical ports. Usually used in access networks, such as base

Access Service for Station Transmission

The higher level is Huawei meto 3000, originally called opt_x 2500+, which supports 25Gbt/s optical port at high speed on group roads. It is an analog Loucent ADM 16/1 device with quite good technology.

Familiar, a lot of running in the current network

Lower than it is Huawei Metro 100, which is mainly used in the business halls of banks, taxation and ATM (ATM) access services.

This kind of equipment is very simple. It is usually installed directly in the integrated cabinet of the small computer room. The integrated cabinet is generally 600 mm (width)*300 mm (depth)*2000 mm (height), according to the

cabinet route.

The cabinet with slightly different height has a top DC power distribution switch (open), a DDF terminal board and an ODF (optical fiber distribution frame, including a fused fibre plate) rack.

According to the actual situation, there is also FE-DDF (Ethernet digital wiring frame). The overhead power supply of the integrated cabinet is directly derived from the header cabinet or switching power supply in the computer room. When Metro 1000 is installed

Install it directly in the integrated cabinet, and then connect one main (working place, 48V) one equipment (working place, - 48V) and a protective ground wire from the integrated cabinet top power module to a total of five power lines. however

After that, the 2M wire on its branch business board is connected to the DDF terminal board in the integrated cabinet, the 10M100M wire is connected to FE-DDE, and the four groups of tail fibers (one group in the East and one group in the west) are connected.

Road optical port, each optical port includes one receiving and one sending two tail fibers) leads to ODF sub-frame, connects to the external cable, thus completes the hardware installation work. Next is the equipment power-on test.

Ag3 Page 3 New Revolution AAU3240, Simple but not Simple Traditional Scheme Innovation Scheme? Huawei Innovation Cylindrical Base Station Design Only 3

AAU is called active antenna unit. In the traditional way, two RUs are selected to connect to a passive antenna under multi-band networking. After AAU is adopted, two RRUs are integrated into the antenna.

Active antenna unit AAU.

After more than ten years of construction, upgrading and transformation of mobile network from 2G to 3G, a considerable number of stations have become increasingly tense, and the increase of new equipment will greatly aggravate transportation.

In order to meet the increasing cost of construction and operation, operators need to rapidly expand network capacity to meet the growth of business. At present, the construction of LTE in the barracks has started rapidly and needs to be improved.

On the basis of existing mobile sites, a layer of LTE (FDD and TDD) network is added, which puts forward new requirements for the space of the station room and the location of the sky. According to Huawei's internal investigation and experience, it is necessary to add a layer of LTE (FDD and TDD) network to the existing mobile sites.

About 45% of the stations in most of the second-tier cities are crowded, and it is impossible to add independent antennas. Under the mode of multi-frequency and multi-plane network construction, how to make efficient use of limited site resources is further discussed.

Upgrading network capacity and providing users with better broadband service experience have become the main challenges faced by operators.

Active antenna solutions represented by Huawei AAU are gradually becoming the trend of the industry. From the GSM macro base station in the 1990s to Huawei's distributed base station in 2004

In the era of MBB, it is necessary to further improve network performance and solve the problem of sky acquisition. Huawei is leading the industry.

Promoting Standardization of Active Antenna

AAU is called an active antenna unit. As shown in Figure 1 below, under multi-band networking, the traditional method requires two RRUs to be connected to a passive antenna. After using AAU, two RRUs are set.

The active antenna unit AAU is formed in the antenna.

Figure 1 AAU with RRU and Antenna Integration

For an existing RU and antenna site, if LTE services are to be added, a new set of RRU, antenna, and related accessories will be needed, while Huawei's AU solution can be used.

To integrate the new band LTE RRU into AAU and the original two antennas, as shown in Figure 2 below.

Huawei's AAU effectively integrates the operators' sky resources, simplifies the sky supporting requirements, integrates radio frequency unit and antenna into a body, reduces feed loss, enhances coverage effect, and is more suitable.

Combining the demand of multi-band and multi-system networking, it effectively protects the operator's more important core asset, the sky resources. With AAU solution, the whole sky becomes simple, reliable and stable.

Yes, the benefits are

It is easy to deploy and save space. The size of AAU is the same as that of single-frequency antenna. It reduces the difficulty of site selection and property coordination. At the same time, the design of cluster cables requires only four feeders to connect AAU with the original AAU. In festival

With 70% space saved, 30% to 70% capacity gain can be achieved.

AAU itself supports a variety of electrical regulation modes. Manual, proximal and distal can easily adjust the dead line. The remote mode can be realized through AISG interface and remote network management.

Credit-free station, rabbit tower, improve maintenance efficiency can be adjusted in real time to avoid business interruption.

It saves money and time, realizes rapid construction, reduces the difficulty of property coordination through one deployment, greatly reduces the rental cost of poles, civil works and floors, and reduces the cost of installation projects.

It is estimated that AAU can reduce the cost of site construction by 30%.

Huawei's AAU can integrate two RF units and antennas in different frequency bands, which is twice as integrated as similar products in the industry. It helps operators to smoothly evolve to HSPA+, LTE and LTE-Adva.

本公司专业致力于华为、艾默生、中兴电源柜的研究，为客户提供全程一站式服务，我公司可以根据客户的具体特点和需求量身定做不同型号的通信电源柜，具体包括设计--选型--安装等跟踪指导，客户的需求就是我们的工作，做各类通信电源柜我们更专业。