

**Espay Solar Energy S.L.**

# **Huawei base station power circuit**



## Overview

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Huawei RRU3908 teardown detailing base station RF front-end, CPU, ADC/DAC chains, clocking and LDMOS power amplifier components and signal paths. Each RF front end delivers 20/40 W output power. The duplexer appears to be an iris-coupled cavity filter with some inter-cavity coupling. Input and output coupling use a T configuration, connecting to the resonator rather than a coupling loop. Discussion of the teardown and analysis can be found here: [What is the PCB circuit design structure?](#)

With a host of questions in mind, we disassembled the Huawei RRU3908, an outdoor wireless base station with 20/40 watts of output power per RF front end. Teardown of a Nokia Siemens Networks Flexi WCDMA base station. This have been in service as a 6 antenna GSM system for mobile telecommunications.

## Huawei base station power circuit



### Teardown of a Huawei Base Station: Graphical Explanation of PCB ...

What is the PCB circuit design structure? With a host of questions in mind, we disassembled the Huawei RRU3908, an outdoor wireless base station with 20/40 watts of output power per RF front end.

### Huawei RRU3908 base station circuit analysis (part 2 of 2)

Central Processing Units  
 Huawei RRU3908 Receive Part  
 Huawei RRU3908 Transmit Part  
 Huawei RRU3908 Power Amplifier  
 The power amplifier uses two stages. Firstly a Infineon PTMA180402FL 40 Watt RF LDMOS. Secondly through a Xinger II XC1900A-03S hybrid coupler feeds two 90 degree out of phase signals to the output stage transistors which are NXP BLF6G20LS-140 140 Watt RF LDMOS. The output is recombined in a Xinger II XC1900A-03S hybrid coupler before leaving to th See more on kaizerpowerelectronics.dkeeworld .cn



### Teardown of a Huawei Base Station: Graphical Explanation of PCB ...

What is the PCB circuit design structure? With a host of questions in mind, we disassembled the Huawei RRU3908, an

outdoor wireless base station with 20/40 watts of output power per RF front end.

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### **Huawei Base Station PCB Circuit Design Overview**

Huawei RRU3908 teardown detailing base station RF front-end, CPU, ADC/DAC chains, clocking and LDMOS power amplifier components and signal paths.

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### **Huawei base station power short circuit protection**

· The Huawei RRU3908 is an outdoor Radio Base Station with one to four carriers and one to six sectors at 20/40 Watt RF output power per carrier. Part 1 is the teardown itself with



### **Huawei RRU3928 1800MHz radio base station teardown (part 1 and 2)**

With the Software Defined Radio (SDR) technology, the RRU3928 supports the dual-mode operation of any two modes of GSM, UMTS, and LTE through software configuration modification. ...

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### **Huawei RRU3908 1800MHz Base Station Circuit ...**

The Huawei RRU3908 is an outdoor Radio Base Station with one to four carriers and one to six sectors at 20/40 Watt RF output power per carrier.



## HUAWEI RRU3908 BASE STATION TEARDOWN AND CIRCUIT ...

The operational constraints of 5G communication base stations studied in this paper mainly include the energy consumption characteristics of the base stations themselves, the communication ...

## Huawei and Nokia Siemens base station teardowns

The Huawei RRU3908 is an outdoor Radio Base Station with one to four carriers and one to six sectors at 20/40 Watt RF output power per carrier. Teardown of a Nokia Siemens ...



## Huawei RRU3908 base station circuit analysis (part 2 of 2)

The Huawei RRU3908 is an outdoor Radio Base Station with one to four carriers and one to six sectors at 20/40

Watt RF output power per carrier. Other teardowns of radio equipment can be ...



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