

RDA6221 Front-end Module

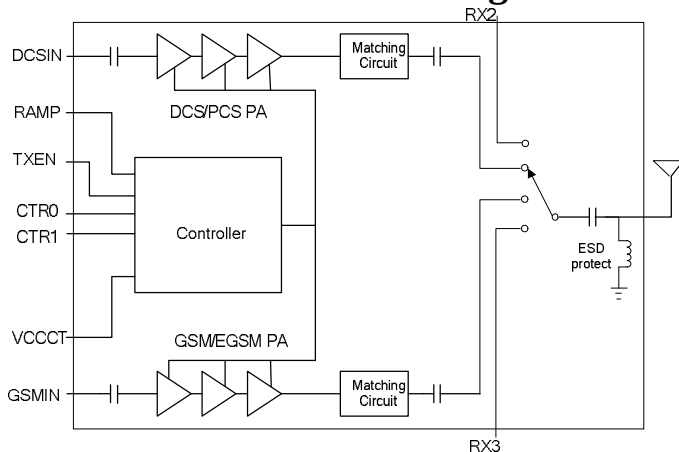
The RDA6221 is a high-power, high-efficiency dual-band front-end Module. This device is designed for EGSM900 and DCS1800 handheld digital cellular equipment. The module consists of dual band power amplifiers and dual band antenna switch. The power amplifiers, switch and their controller are fabricated with GaAs HBT, GaAs PHEMT and CMOS respectively.

The device package is 6mm×6mm×1.1mm 28-pins LGA. The input and output are realized on-chip matched to 50Ω. The RDA6221 requires few external components, simplifying PCB layout and reducing PCB board space.

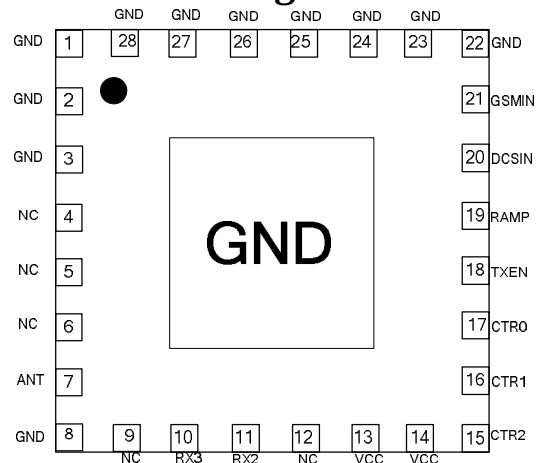
Features

- ┃ Ultra-Small 6mm×6mm Package
- ┃ Dual-Band Power Amplifier with RF switches
- ┃ ESD protection at Antenna
- ┃ Complete Power Control Solution
- ┃ High efficiency
- ┃ Low supply voltage (3~4.5V)
- ┃ Input/Output matched @ 50 Ω
- ┃ Advanced HBT/PHEMT/CMOS process

Function Block Diagram



Pin Assignment



Pin Name definition

Pin	Pin Name	Description	Pin	Pin Name	Description
1~3	GND	Ground	14	VCC	Power supply
4~6	NC	Not connected	15	CTR2	Reserved
7	ANT	Antenna	16	CTR1	Control logic pin
8	GND	Ground	17	CTR0	Control logic pin
9	NC	Reserved	18	TXEN	TX enable pin
10	RX3	RX port	19	RAMP	Ramp control pin
11	RX2	RX port	20	DCSIN	DCS/PCS RF input port
12	NC	Reserved	21	GSMIN	GSM/EGSM RF input port
13	VCC	Power supply	22~28	GND	Ground