

RDA6231 Front-end Module

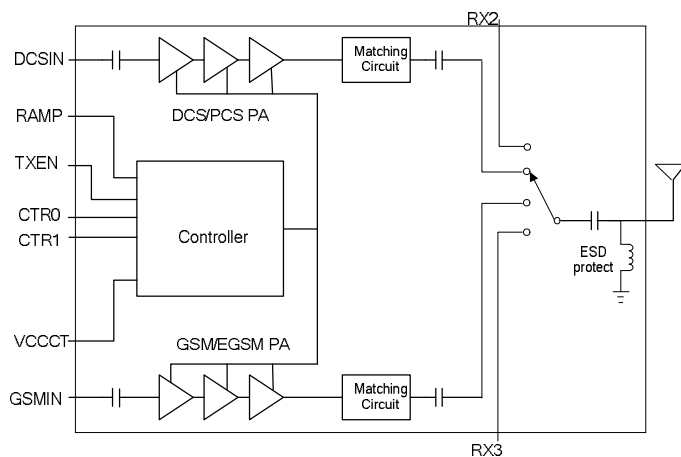
The RDA6231 is a high-power, high-efficiency dual-band front-end Module. This device is designed for EGSM900 and DCS1800 handheld digital cellular equipment. The module consists of dual band power amplifiers and dual band antenna switch. The power amplifiers, switch and their controller are fabricated 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 RDA6231 requires few external components, simplifying PCB layout and reducing PCB board space.

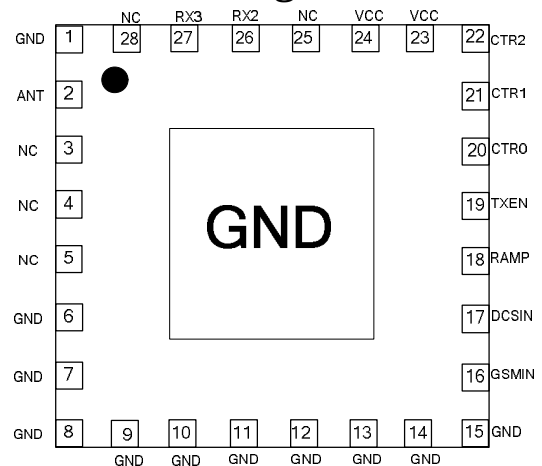
Features

- ┃ 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	GND	Ground	21	CTR1	Control logic pin
2	ANT	Antenna	22	CTR2	Reserved
3~5	NC	Not connected	23	VCC	Power supply
6~15	GND	Ground	24	VCC	Power supply
16	GSMIN	GSM/EGSM RF input port	25	NC	Reserved
17	DCSIN	DCS/PCS RF input port	26	RX2	RX port
18	RAMP	Ramp control pin	27	RX3	RX port
19	TXEN	TX enable pin	28	NC	Reserved
20	CTR0	Control logic pin			