

RDA6635 Front-end Module

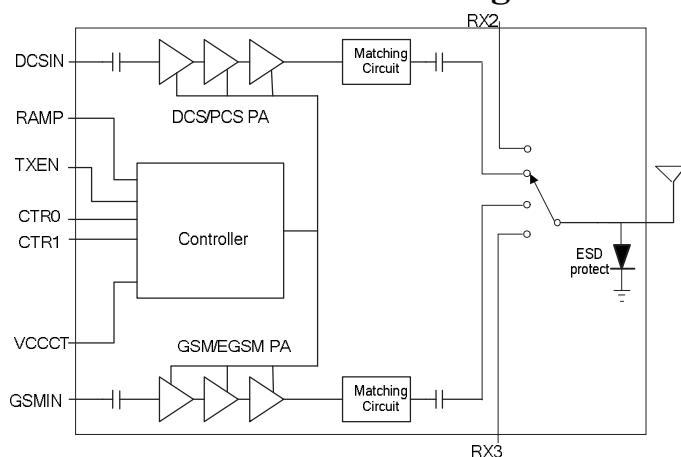
The RDA6635 is a high-power, high-efficiency quad-band front-end Module. This device is designed for GSM850, EGSM900, DCS1800, PCS1900 handheld digital cellular equipment. The module consists of quad band power amplifiers and antenna switch. The power amplifiers, switch and their controller are fabricated with GaAs HBT and CMOS respectively.

The device package is 5mm×5mm×1.1mm 32-pins LGA. The input and output are realized on-chip matched to 50Ω. The RDA6635 requires few external components, simplifying PCB layout and reducing PCB board space.

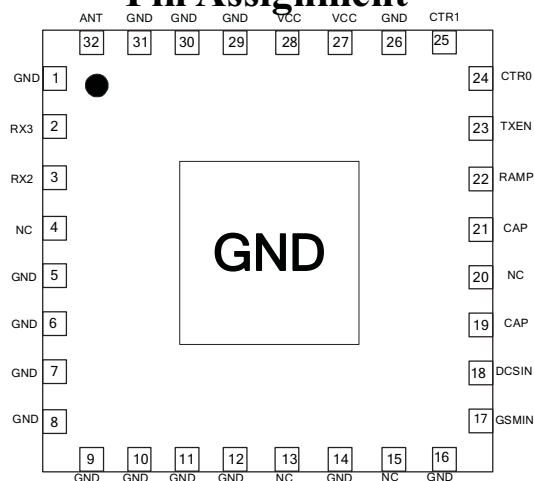
Features

- Ultra-Small 5mm×5mm Package
- Quad-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/CMOS process

Function Block Diagram



Pin Assignment



Pin Name definition

Pin	Pin Name	Description	Pin	Pin Name	Description
1	GND	Ground	19	CAP	Connected capacitor
2	RX3	RX port	20	NC	Reserved
3	RX2	RX port	21	CAP	Connected capacitor
4	NC	Reserved	22	RAMP	Ramp control pin
5~12	GND	Ground	23	TXEN	TX enable pin
13	NC	Reserved	24	CTR0	Control logic pin
14	GND	Ground	25	CTR1	Control logic pin
15	NC	Reserved	26	GND	Ground
16	GND	Ground	27~28	VCC	Power supply
17	GSMIN	GSM/EGSM RF input port	29~31	GND	Ground
18	DCSIN	DCS/PCS RF input port	32	ANT	Antenna port