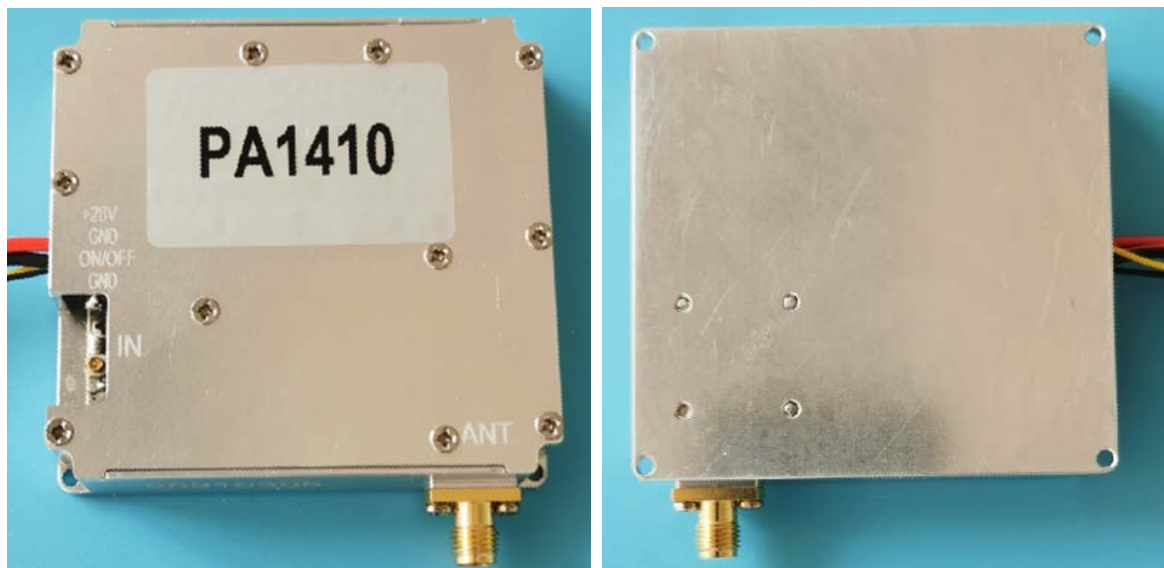


PA1410/PA810 for DLB/DLM Module

10W RF Linear Power Amplifier for Sihid DLB/DLM module.



Features:

- Frequency band: 1420MHz-1460MHz(PA1410) , 800MHz-830MHz(PA810)
- RF in: Sihid DLB/DLM module RF out(25 ± 2 dBm)
- RF out power: 10W(40dBm)
- TX Gain: 18dB, when used with DLB/DLM module, set up the maximum RF power of DLB/DLM as 22~24 dBm, then the RF out power will be 40~42dbm.
- Power in: DC24V~30V, minimum 2.5A@28V power current rating
- Power consumption: <28W average
- Dimensions: 65*62*13.5mm, not including the connector out of the metal housing
- Weight: 98g



RF in

UFL(IPEX) connector for connection with main antenna of DLB/DLM module.

RF out(ANT)

SMA female connector.

Power in

VDD(red) and GND(black) cable. It's suggested to power with DC28V. It's requested to connect the antenna on the RF out connector before power up the PA module, otherwise the PA module maybe damaged.

Control

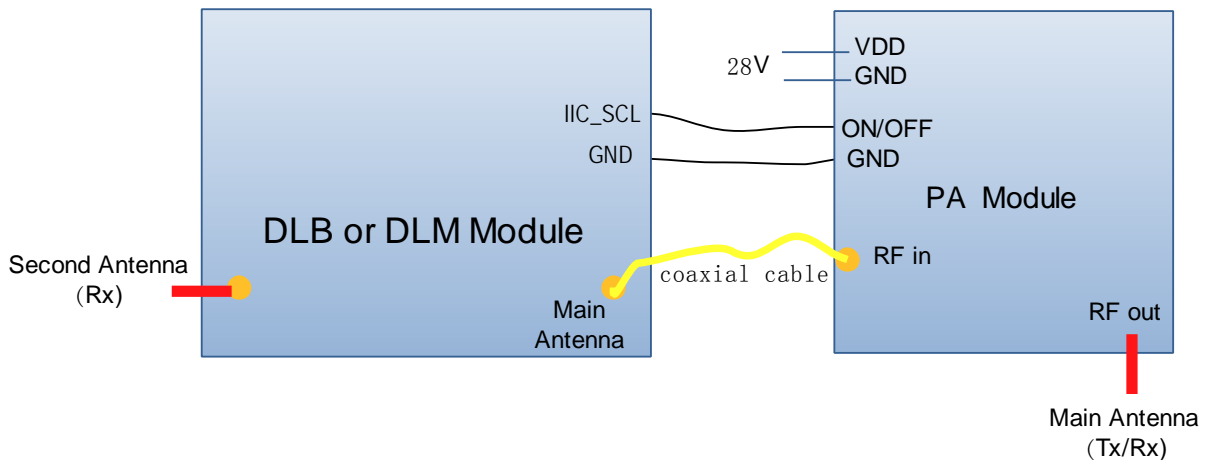
Two cales, Tx/Rx switch control signal from DLB/DLM module, should be connected with DLB/DLM IIC_SCL and GND signal(Switch port).

Control signal	function	Connection to DLB/DLM
Yellow cable (ON/OFF)	The input high(1.8V to 3.3V) will drive the amplifier and work in Tx mode. The input low will enable the PA module to work in Rx mode.	IIC_SCL of Switch port
Black cable (GND)	Gnd.	GND of Switch port

Heat dissipation

The back side of the PA module should be assembled to metal directly and tightly to help heat dissipation. For optimal performance it is important to include adequate heat dissipation strategies that incorporate a heat sink or fan into any designs that integrate the PA module.

Working together with DLB/DLM Module:



AT command to set RF power of DLB/DLM Module

Center node: AT^DRPS=,"23" ; RF power=23
Access Node: AT^DSSMTP="23" ; Max RF power=23

Dimensions diagram (mm)

