

100W 2300~2400MHz Power Amplifier Integrated DDS Module

Items	Technical Parameters
Working frequency	2300~2400MHz
Bandwidth	400MHz(DDS)
Saturated power output	50±1dBm
Gain	50±1dB
In-band flatness	≤2.0dB
Power stability	±1.5dBm(at -25℃~+55℃)
Output VSWR	≤1.5
Operating voltage	DC28±1.0V
Operating current	10.0A typ; 11.0A max.(@ Pout=100W CW, 50 ohms load)
Operating temperature	-25℃~+55℃
Relative humidity	5%~95%, No condensation
RF port	N-K
Power supply monitoring interface	Power supply:7W2 power seat A1: GND A2: +28V Pin1: RS485A Pin2: RS485B Pin3: NC Pin4: NC PIN5: Power amplifier enable switch, +12V on, 0V off.
Alarm and LED indication	TEMP: LED indication for temperature alarm. VSWR: LED indication for VSWR alarm. VCC: LED indication for Over voltage/ Under voltage. P-OUT: LED indication if module not radiating. ENA: LED indication for Module switch ON/OFF.
Monitoring type	RS485, baud rate 19200
Monitoring function	1. Module status (including power amplifier status, over-temperature alarm, standing wave ratio alarm, power amplifier alarm reading, temperature value/reading, voltage value/reading, forward power, reverse power, input power, output power value reading); 2. Power amplifier enable switch: turn the power amplifier on or off. 3. Temperature alarm: The temperature threshold is +75℃. When the detected temperature exceeds +75℃, the alarm will be triggered and the power amplifier will be turned off. When the temperature reaches +65℃, the power amplifier will be turned back on; 4. Power amplifier standing wave alarm: When the standing wave detection of the power amplifier is greater than 4.0, the power amplifier starts protection; 5. Power amplifier over/under voltage alarm: When the power amplifier voltage exceeds 32V, the power amplifier automatically shuts down; 6. Power amplifier undervoltage alarm: When the power amplifier voltage is less than 24V, the device will automatically shut down. 7. Indication when the power amplifier does not radiate: When the output power is less than 10W, it is considered that the power amplifier does not radiate power. 8. Indication when the module is turned on/off: when the software is enabled or the manual physical switch is turned on or off.
Amplifier dimension	170*79.5*34 mm

Installation dimension	164*73.5*34mm
Mounting screw dimension	4-Ø3.2mm

