Specifications of FDD 80W Dual-Channel PA DPSL

Features:

- High reliability, stability and consistency
- Small size and low power consumption
- Equipped with power, VSWR, temperature and fault detection functions, as well as active fault reporting capability
- With ATT and ALC control functions
- Monitoring function: RS485 protocol, providing module testing software
- Complete product series with comprehensive power levels to meet different application requirements

Technical Specification:

Product Name:

1. UZI-FDD-B1-2.1G-80W-150100-DPSL
2. UZI-FDD-B3-1.8G-80W-150100-DPSL
3. UZI-FDD-B7-2.6G-80W-150100-DPSL
4. UZI-FDD-B8-900M-80W-150100-DPSL

Cautions:

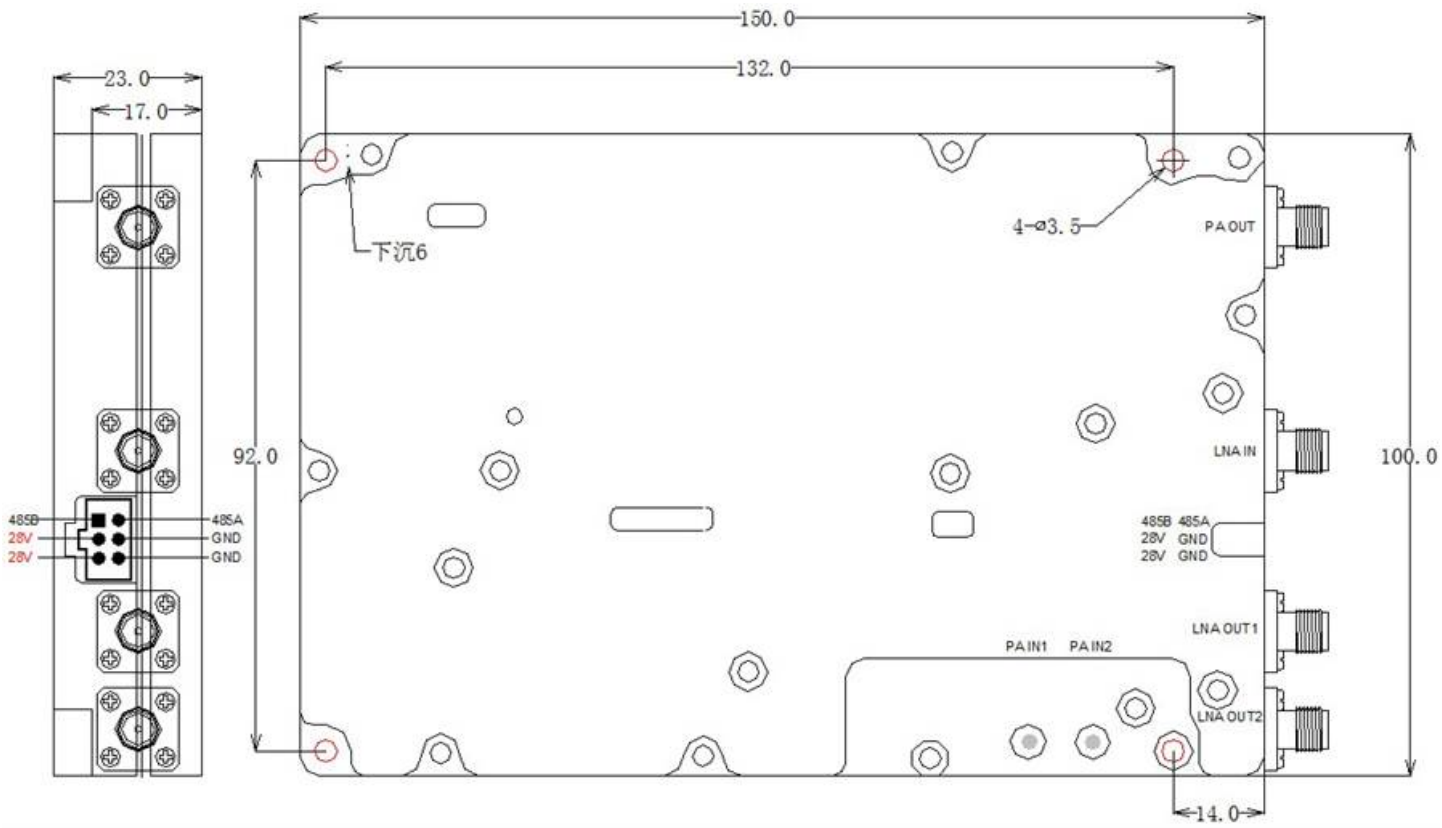
1. 4G Standard Software for Power Amplifier
2. 28V Dual-Wire Power Supply Configuration

Items:	Uplink (UL) & Downlink (UL) Specifications:

Frequency Range:	1. B1: a. UL:1920-1980MHz b. DL:2110-2170MHz 2. B3 a. UL:1710-1785MHz b. DL:1805-1880MHz 3. B7 a. UL:2500-2570MHz b. DL:2620-2690MHz 4. B8 a. UL:880-915MHz b. DL:925-960MHz
Max Gain:	1. UL:25±2dB 2. DL:53±2dB
Maximum Output Power:	1. UL:Uncontrolled 2. DL:49±1dBm
Maximum Input Level:	1. UL:NONE 2. DL:+10dBm
Gain Adjustment Range:	1. UL:NONE 2. DL:≥25dB
ALC Range:	1. UL:NONE 2. DL:≥10dB
Gain Flatness:	1. UL:NONE 2. DL a. ATT10dB：≤±1dB b. ATT20dB：≤±1dB c. ATT25dB：≤±1.5dB
In-Band Ripple:	≤2.5dB
Noise Figure:	1. UL:≤3dB 2. DL:NONE
Tx-Rx Isolation:	≥55dBc

EVM:	⩽8% (Peak-to-Average Power Ratio 10.0dB)
VSWR:	1. UL:⩽1.4 (Test condition: power on for testing after turning off the uplink power amplifier.) 2. UL:⩽1.4 (Test condition: power on for testing after turning off the downlink power amplifier.)
Operating Voltage:	28V DC, dual-wire power supply configuration
Operating Current:	With APD: ⩽9A
Baud Rate:	9600
Working Temperature:	-40～+55°C
Over-Temperature Protection:	Alarm and shutdown at +85°C, resume operation at 65°C
Monitoring Functions:	1. For the wiring diagram of the monitoring port, refer to the outline dimension drawing; RS485 interface communication a. Settings: switch, gain; b. Query: module status (including power amplifier status, over-power alarm, over-temperature alarm), power amplifier temperature, power amplifier ATT value, detected forward power; c. Over-power alarm: alarm when the power exceeds the maximum output power by +2dB; d. Over-temperature alarm: recommended threshold is +85°C; alarm is triggered when the detected temperature exceeds +85°C, and the power amplifier is turned off simultaneously, then turned on at +65°C; e. Power amplifier temperature detection: the detection range shall include but not be limited to -25°C～+85°C, with a detection accuracy of ±3°C; f. Forward power detection: the detection range shall be greater than 20dB, with a detection accuracy of less than ±1dB;

Dimensional Drawing: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132.0
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PA OUT
LNA IN
92.0
100.0
485B
28V
28V
485A
GND
GND
485B 485A
28V GND
28V GND
LNA OUT1
PA IN1 PA IN2
LNA OUT2
14.0

Sample:


PA OUT
LNA IN
485B 485A
28V GND
28V GND
LNA OUT1
PA IN1 PA IN2
LNA OUT2