# Specification of UZI-AUDS-50W-16550-485

## Features:

1. Wideband Multi-frequency Operation — Covers three frequency bands (3480–3520 MHz, 3540–3860 MHz, 3700–4000 MHz) with high gain (51±1 dB) and 47±1 dBm output power for flexible deployment.
2. Comprehensive Monitoring & Protection — Features RS485 monitoring with real-time status queries, over-power/over-temperature alarms, and VSWR protection that automatically reduces power to 3W when needed.

## Technical Specification:

### Product Name:

1. UZI-AUDS-3480~3520M-50W-16550-485
2. UZI-AUDS-3540~3860M-50W-16550-485
3. UZI-AUDS-3700~4000M-50W-16550-485

### Cautions

1. Single-tone signal test.
2. The power amplifier has a 485 function.
3. Temperature alarm and protection: Alarm at 85°C and turn off the power amplifier simultaneously; turn on the power amplifier at 65°C.
4. VSWR (Voltage Standing Wave Ratio) alarm protection: After VSWR alarm, the power amplifier power drops to 3W; when VSWR returns to normal, the power amplifier automatically returns to normal.

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| Items: | Quality Standards |
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| Frequency Range | 1. 3480-3520M<br>2. 3540-3860M<br>3. 3700-4000M |
| Max Gain: | 1. 51±1dB |
| Maximum Output Power: | 1. 47±1dBm |
| Maximum Input Level: | 1. +10dBm |
| Manual Gain Control: | 1. ⩾25dB |
| Automatic Gain Control: | 1. ⩾10dB |
| Gain Flatness: | 1. ATT10dB：⩽±1dB<br>2. ATT20dB：⩽±1dB<br>3. ATT25dB：⩽±1.5dB |
| In-band Ripple: | ⩽2.5dB |
| VSWR | ⩽1.4 |
| Operating Voltage: | 28V |
| Operating Current: | ⩽6A |
| Working Temperature: | -40～+55°C |
| Over-Temperature Protection: | Alarm and shutdown at +85°C, resume operation at 65°C |
| Baud Rate: | 19200 |
| Connectors: | 2 SMA connectors |
| Chassis Dimension: | 165*50*20 |
| Monitoring | 1. For the wiring diagram of the monitoring port, refer to the outline dimension drawing; RS485 interface communication<br>a. Settings: switch, gain;<br>b. Query: module status (including power amplifier status, over-power alarm, over-temperature alarm), power amplifier temperature, power amplifier ATT value, detected forward power; |

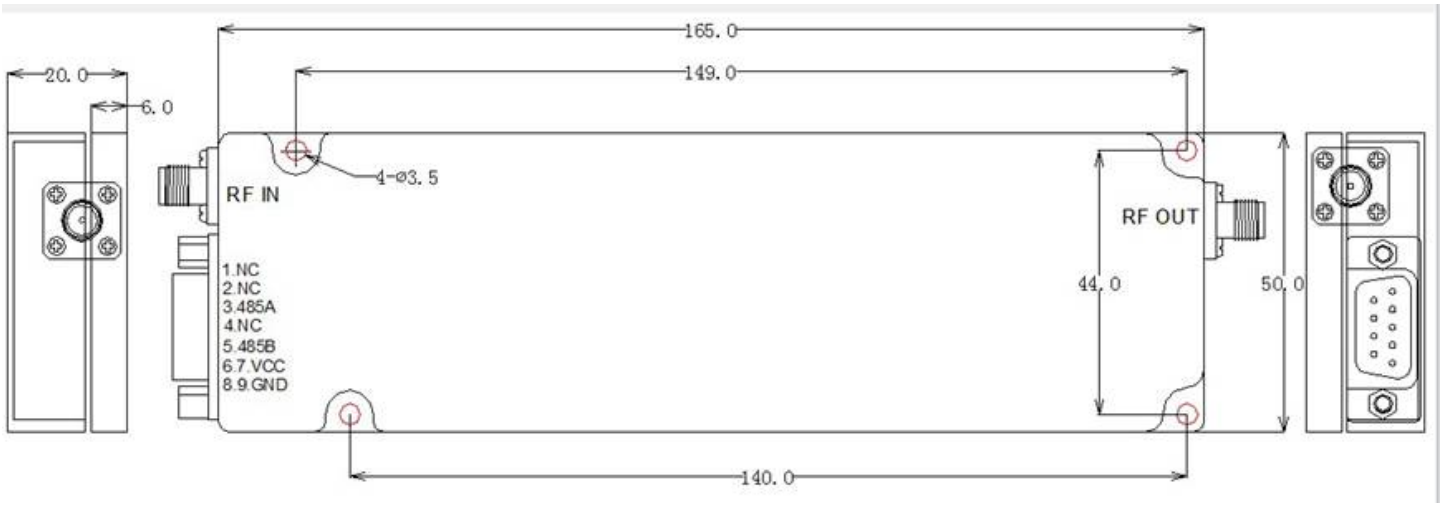
c. Over-power alarm: alarm when the power exceeds the maximum output power by +2dB;

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:




## Sample: