

# UZI TDTRA 400M Band Selective Repeater



## Features:




1. Dual Monitoring Interfaces with Complete Accessories
  - Equipped with a local monitoring USB port and a remote monitoring RJ45 port; each unit comes with a dual-USB connector data cable and a 2-meter RJ45 network cable (both factory-tested to pass quality control) for immediate deployment.
2. Wide Voltage Adaptability & Stable Power Performance
  - Supports wide AC voltage input (110-220V) to fit diverse power supply scenarios, with power consumption controlled at  $\leq 180\text{W}$  for energy efficiency.
3. Robust Environmental Durability
  - Operates reliably within a temperature range of  $-25^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ , features an IP65 waterproof rating for outdoor/harsh environment use, and includes a customer-specified lightning arrester for enhanced electrical protection.
4. Professional Interface & Indicator Configuration
  - Adopts N-Female ( $50\Omega$ ) RF connectors for signal transmission; external chassis indicators (power, operation, alarm) provide real-time device status visibility.
5. Convenient Management with English Interface
  - Monitoring software comes with an English interface, enabling intuitive local (via USB) and remote (via RJ45) device management.
6. Sturdy Mechanical Design
  - Features a compact chassis ( $500*440*187\text{mm}$ ) with a weight of  $\leq 28\text{kg}$  for easy installation, and uses an LP20 model power cable socket for secure power connection.

## Technical Specification:

### Product Name:

## 1. UZI-TETRA-400M-XDZFFZ-20W

Items:	Uplink (UL) & Downlink (DL) Specifications:
Frequency Range:	<ol style="list-style-type: none"><li>1. UL:413.750~415.750M</li><li>2. DL:423.750~425.750M</li></ol>
Max Gain:	<ol style="list-style-type: none"><li>1. UL:33±1dB</li><li>2. DL:43±1dB</li></ol>
Maximum Output Power:	<ol style="list-style-type: none"><li>1. UL:Uncontrolled</li><li>2. DL:44±1dBm</li></ol>
Maximum Input Level:	<ol style="list-style-type: none"><li>1. UL:-10dBm</li><li>2. DL:-10dBm</li></ol>
Gain Adjustment Range:	<ol style="list-style-type: none"><li>1. UL:≥25dB</li><li>2. DL:≥25dB</li></ol>
ALC Range:	<ol style="list-style-type: none"><li>1. UL:≥20dB</li><li>2. DL:≥20dB</li></ol>
Gain Flatness:	<ol style="list-style-type: none"><li>1. UL:<ol style="list-style-type: none"><li>a. ATT10dB: ≤±1dB</li><li>b. ATT20dB: ≤±1dB</li><li>c. ATT25dB: ≤±1.5dB</li></ol></li><li>2. DL<ol style="list-style-type: none"><li>a. ATT10dB: ≤±1dB</li><li>b. ATT20dB: ≤±1dB</li><li>c. ATT25dB: ≤±1.5dB</li></ol></li></ol>
In-Band Ripple:	≤3dB
Out-of-band Rejection:	≤-45dBc (1MHz offset from the band edge)
Noise Figure:	≤5dB
Transmission Delay:	≤5μs
Tx-Rx Isolation:	≥55dBc
EVM:	≤5% (Peak-to-Average Power Ratio 10.0dB)
VSWR:	≤1.5:1

<b>Third-order Intermodulation (IM3):</b>	$\leq -45\text{dBc}$
<b>Working Temperature:</b>	$-25\sim+55^{\circ}\text{C}$
<b>Connector Model:</b>	N-Female / 50 $\Omega$
<b>External Chassis Indicator Lights:</b>	Power indicator light, operation indicator light, and alarm indicator light
<b>Lightning Arrester:</b>	Special customer requirement: A lightning arrester shall be installed on the equipment
<b>Local Monitoring USB Port:</b> 	The local monitoring port of the chassis is USB; each device is equipped with one USB data cable with USB connectors on both ends at the factory (must pass quality control testing) 
<b>Remote Monitoring RJ45 Connector &amp; Network Cable:</b> 	The remote monitoring port of the chassis is an RJ45 connector; each device is equipped with one 2-meter-long RJ45 network cable at the factory (must pass quality control testing)
<b>Power Supply:</b>	Wide voltage input: AC 110-220V
<b>Power Consumption:</b>	$\leq 180\text{W}$
<b>Chassis Dimensions:</b>	500*440*187mm
<b>Weight:</b>	$\leq 28\text{kg}$
<b>Waterproof Grade:</b>	IP65
<b>Power Cable Socket:</b>	Model: LP20



Over-Temperature Protection:	Alarm and shutdown at +85°C, resume operation at 65°C
Monitoring Functions:	<ul style="list-style-type: none"><li>• Monitoring software: English interface</li><li>• Local monitoring: USB port</li><li>• Remote monitoring: RJ45 network port</li></ul>

## Dimensional Drawing:

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## Sample:



