

## **10Wrms-200Wrms Single-channel/Broadband MUDS TV Transmitter (TL-UDT (B) 213~217)**

TL-UDT211~215 10Wrms~200Wrms Single-channel Digital MUDS Transmitter sends one channel QAM modulated digital signal to the transmitting antenna for wireless transmission, after feed forward correction, linear amplification and channel synthesis. It adopts imported power amplification module and feed forward correction technology, so that the power amplifier has very high linearity and high reliable performance.

TL-UDTB211~215 10Wrms~200Wrms Broadband Digital MUDS Transmitter adopts imported power amplification module and feed forward correction technology, so that the power amplifier has very high linearity and high reliable performance. Synthesize multi-channel QAM digital signal, and send into the power amplifier for amplifying, then send to the transmitting antenna.



### **Features:**

High reliability design, and fully considered various kinds of application environments and conditions in design,, this equipment can work 24 hours unattended

Adopt high power frequency synthesis technology and power module of imported LDMOS high power valve, with high redundancy. Key components choose military grade, and adopt feed forward nonlinear correction technology, so that the transmitter can work under very high linearity and high reliable performance.

Automatic level control (ALC) circuit, maintaining constant power output and ensuring the stability and excellent performance of the product

With intelligent control and remote monitoring function, the equipment parameters can be remotely configured and monitored through RS-232 interface. Options support SNMP protocol.

With alarm and monitoring function, the main alarm and monitoring signal are shown on front panel LED.

Adopt switch voltage regulator for power supply, wide voltage regulation range, and high efficiency

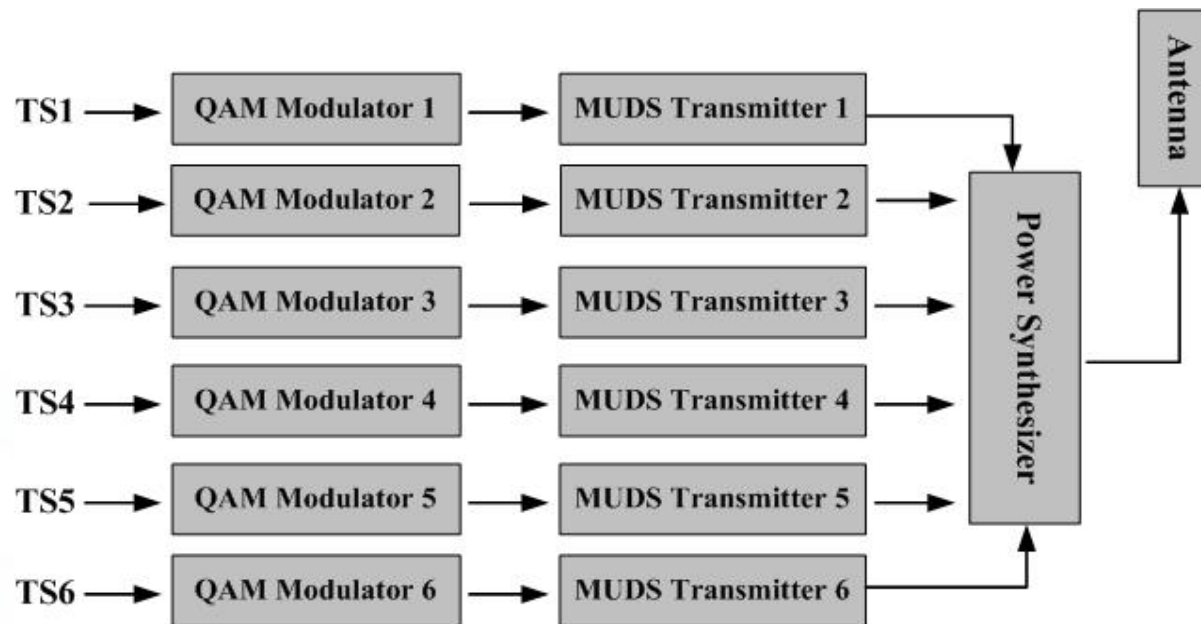
With various kinds of automatic protection functions, such as over voltage, over current, overheat, over excitation, under voltage, over temperature, short circuit, over VSWR, etc. With multiple lightning protection measures; the transmitter has perfect protection device.

Adopt forced air cooling design, with low power consumption and low noise

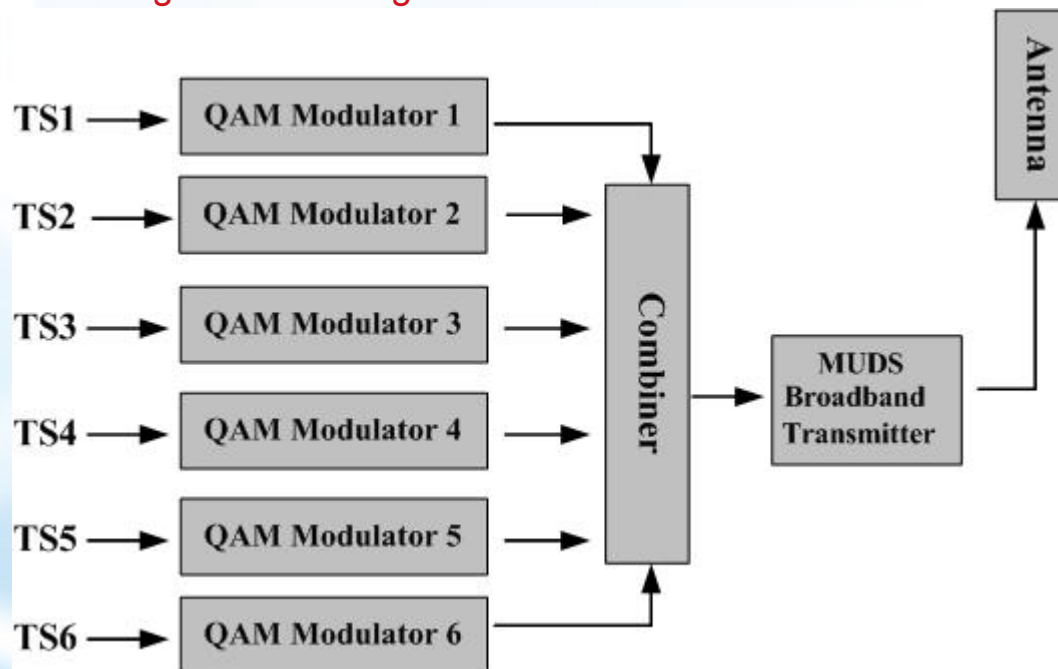
With intellectual property rights. Exciter, power amplifier, power synthesizer and monitoring system are all developed and produced by ourselves

### Functional Block Diagram





MUDS Single-channel Digital TV Transmitter Functional Block Diagram



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## Technical Specification:

» Items		» Technical Parameters	
Parameters	» Basic Parameters	» TV System Standard	» Comply with DTMB /DVB-T/DVB-C/MPEG-2 standards (comply with DVB-T/DVB-C/MPEG-2 standards)
		» Modulation Mode	» Support QAM16/32/64/128/256 modes
		» Working Frequency Band	» 470MHz~860MHz Any selected channel
		» Rated Output Power	» 10Wrms~200Wrms, Selected by coverage
		» Output Impedance	» 50 Ω, Output Interface: L27,7/8" Flange
		» Output Power Variation	» ±0.25dB
		» In-band Stray	» ≤-60dBc
		» Out-of-band Suppression	» ≥65dB c
Specification	» Input Specification	» Input Frequency	» 470MHz~860MHz
		» Input Level Range	» 0dBm±10dB
		» Input Reflection Loss	» ≥18dB
		» Input Connector	» 'N'
Specification	» Output Specification	» RF Output Power	» 10Wrms~200Wrms
		» Output Frequency	» 470MHz~860MHz
		» Output Impedance	» 50 Ω, 'N', L16
		» Phase Noise	» -110dBc (10kHz 1M Bandwidth)
		» Frequency Response	» ±0.25dB
		» MER	» ≤1.6%
		» BER	» 1×10 <sup>-6</sup> @256QAM
		» Output Reflection Loss	» ≥18dB
Conditions	» Environmental Conditions	» Operation Temperature	» -10~+45
		» Storage Temperature	» -30~70
		» Relative Humidity	» <95% (No condensation when 25 )
		» Atmospheric Pressure	» 86~106Kpa
		» Cool System	» Built-in cooling fan for air cooling
		» Power Supply	» Single Phase AC; 220V+15%; 47Hz~63Hz
		» Machine Room	» Little dust, No vibration and shock
		» Dimension	» Indoor Type: 177(H)×482(W)×570(D) mm3 » Outdoor Type: Depends on the power level