

ZHC618F-5W~300W FM Stereo Transmitter(Exciter)

ZHC618F series FM stereo broadcast transmitter (exciter) is an excellent software radio product with excellent performance specifications. The whole machine adopts new digital signal processing (DSP) and direct digital frequency synthesis (DDS) technology. With the advantages of digital processing technology, it provides users with a perfect listening experience close to CD sound quality.

ZHC618F series FM stereo broadcast transmitter (exciter) consists of six parts: main control display, audio interface, digital signal processing, power amplification, remote telemetry interface and power supply. The machine is installed in a 19-inch 2U standard case, and all input and output signals are led out from the rear panel.

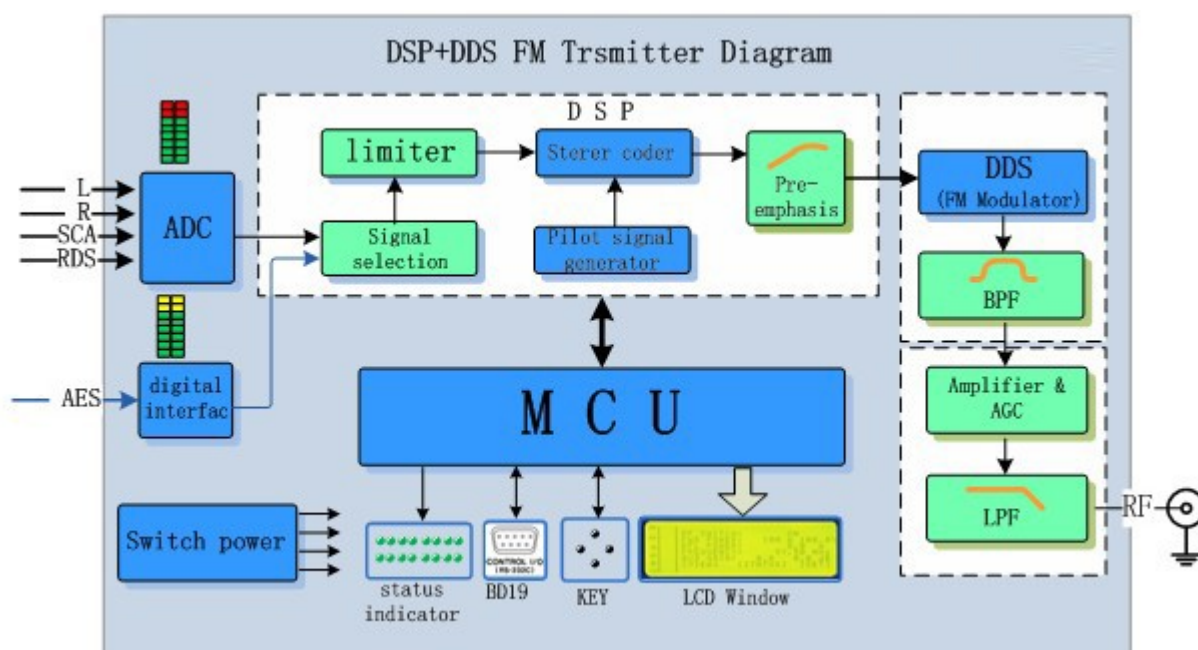
Product models are: ZHC618F-5W, ZHC618F-10W, ZHC618F-30W, ZHC618F-50W, ZHC618F-100W, ZHC618F-200W, ZHC618F-300W



Features

- The whole process is digitally processed to achieve a perfect hearing effect close to the sound quality of CD
- Uses new 550MHz digital signal processing (DSP) technology
- 1000MHz direct digital frequency (DDS) synthesis technology
- Using highly reliable system-on-chip (SOC) microprocessor technology
- Support AES / EBU standard digital audio input
- Support SCA or RDS subcarrier input
- Electronically controlled AGC controls output power with zero drift
- Complete alarm and protection functions for over current, over voltage, over temperature, over power, and excessive standing wave ratio
- Large screen LCD displays working parameters in real time
- With TCP / IP, CAN and RS232 communication interfaces and SMS cat interface
- High quality stainless steel, dust filter, 2U, 19 inch standard case

ZHC618F-5W~300W FM Transmitter Diagram



Technical Specifications:

- | | |
|---------------------------|----------------------------------------|
| 1. Frequency Range: | 87.0MHz~108.0MHz
Setting step 10KHz |
| 2. Output Power | 0~5W/10W/30W/50W/100W/200W/300W |
| 3. Output power deviation | <± 10% |
| 4. Output power stability | <± 3% |
| 5. Output Load Impedance | 50Ω |

6. RF Output Interface	N-50K
7. Residual wave radiation	<-70dB
8. Parasitic amplitude modulation	<-50dB
9. Carrier Frequency Precision	±200Hz
10. Analog Audio Input	-12dBm~+8dBm
11. Audio Input Level Gain	-15dB~+15dB, step 0.1dB
12. Audio Input Impedance	600Ω, Balance, XLR
13. AES / EBU input impedance	110Ω, Balance, XLR
14. AES / EBU input level	0.2 ~ 10Vpp
15. AES / EBU sample rate	30kHz ~ 96kHz
16. SCA Input	Unbalance (optional) BNC connector
17. Pre-emphasis	0μS, 50μS, 75μS (optional)
18. Audio Response	±0.1dB
19. LR channel level difference	<0.1dB (100% modulation)
20. Stereo Separation	≥50dB (30Hz ~ 15000Hz)
21. Stereo S/N ratio	≥70dB (1KHz, 100% modulation)
22. Distortion	<0.1% (30Hz~15000Hz)
23. Cooling mode	Forced Convection
24. Temperature Range:	-5°C~+45°C
25. Relative humidity	<95%
26. Power Supply Voltage:	AC90V~AC260V 47Hz~63Hz
27. Size	2U, 19-inch standard 500mm×484mm×88mm
28. Weight	13KG