

# ZHC618F-20KW FM Stereo Transmitter



ZHC618F-20KW is an excellent FM stereo transmitter for professional radio stations. It is Hot-Plug design, high reliability and high Performance. It consists of [center control unit](#) (CCU), double [exciters](#), 8pcs hot-plug 3KW FM [amplifier](#) modules, 8-way [combiner](#), a perfect LPF and 8pcs hot-plug 5KVA switched [power supply](#) modules. This can be repaired without turn off entire transmitter.

## FEATURES

- [Fully Large Power](#): 8pcs 3KW hot-plug RF Amplifier modules combined [high efficiently](#); Maximum Output Power is 22KW. It uses the new high-efficiency LDMOS Transistors, the full RF output power can reach 70%.
- [Fully Power Supply](#): 8pcs 5KVA switched power supply modules are working in parallel. It can provide large [redundant power capacity](#).
- [High-performance Low Pass Filter](#) which can minimize unwanted emission.
- [Output Power Stable](#): Total output power is extremely stable by AGC (Automatic Gain Control). Ensure the output power would not change with the boot time and ambient temperature, power stability is less than 10W.
- [Dual-Exciter](#): Two exciters (DSP+DDS) with automatically changeover switcher, increase entire transmitter stability.
- Analog and [Digital \(AES/EBU\)](#) audio signal input directly; Hearing similar to [CD](#).
- [8-inch Color LCD](#) with touch panel displays all the parameters in real time.
- [Intelligent protection](#) functions by centre control module, like Over Forward Power, Over SWR, Over Temperature, Over Voltage, Over Current. It can adjust output power intelligent, keep the maximum safe output power and keep fault not expanding.
- [Best dustproof performance](#): All inlets are made of high-quality filters which can filter out dust in the air to keep stability of transmitter.
- [Best lightning protection](#): high quality lightning protection SPD from Germany for the whole power supply.

- **Real Hot-Plug structure:** the Amplifier modules and Power Supply modules can be repairing at non-stop condition in any case.
- **Timing automatically adjusts the output power:** After setting, the transmitter can automatically adjust the output power at different times of the day, convenient for economical radio broadcasting.
- **Advanced Remote Telemetry Interface:** RS232/RS485 or TCP/IP Internet Communication interface is ready for remote control system which can read all detail parameters from transmitter.

## Technical Specifications:

1. Frequency Range	87.0MHz~108.0MHz Setting Step 10KHz
2. Output Power	0~20000W
3. Output power deviation	<± 10%
4. Output power stability	<± 3%
5. Output Load Impedance	50Ω
6. RF Output Interface	3-1/8" Flange
7. SFDR	< -70dB
8. High Harmonic	< -75dB
9. Residual Amplitude Modulation	< -50dB
10. Carrier Frequency Precision	±200Hz
11. Analog Audio Input	-12dBm~+8dBm
12. Audio Input Level Gain	-15dB~+15dB, step 0.1dB
13. Audio Input Impedance	600Ω, Balance, XLR
14. AES / EBU input impedance	110Ω, Balance, XLR
15. AES / EBU input level	0.2 ~ 10Vpp
16. AES / EBU sample rate	30kHz ~ 96kHz
17. RDS Input	Unbalance (optional) BNC connector
18. Pre-emphasis	0μS, 50μS, 75μS (optional)
19. Audio Response	±0.1dB (30Hz~15000Hz)
20. LR channel level difference	<0.1dB (100% modulation)
21. Stereo Separation	≥50dB 30Hz ~ 15000Hz
22. Stereo S/N ratio	≥70dB 1KHz, 100% modulation
23. Distortion	<0.1% 30Hz~15000Hz
24. Cooling mode	Forced Convection
25. Temperature Range:	-5℃~+45℃
26. Size	19-inch standard 850mm×1970mm×1200mm
27. Weight	580KG