

FTC1K5-D

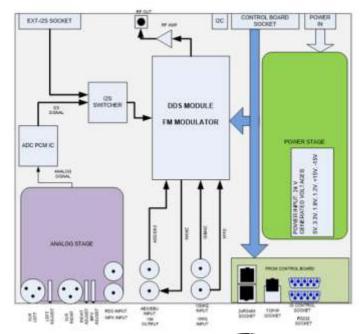
1.5 KW FM DIGITAL TRANSMITTER



FTC1K5-D FM digital exciter is designed to provide all requested specifications in a single boxAnalog&digital audio signals are converted to digital signals and modulated in a FPGA with excellent software algorithms to FM band with extremely low noise level. It is manufactured to the highest performance needs.

Main Features

- · Direct to channel digital modulator (DDS) with built in RDS encoder
- · High audio performance is ensured by advanced digital signal processing technology (24-bit analog converter)
- Measurement and display of the transmitter's working parameters
- Built-in silence detector (adjustable time)
- Built-in automatic audio source selector
- Ready for N+1 redundancy system
- · Automatic start/stop for air conditioner
- Ready for SFN
- RDS Alarm contact
- Event logs can be seen on display or printed out with date&time of event
- All parameters can be remotely controlled by TCP/IP











FTC1K5-D

1500 W FM DIGITAL TRANSMITTER

Technical Parameters		
	Output Power Range	0 - 1500 W
GENERAL DATA	RF Output Connector	7/16
	Operating Band	87.5 - 108.0 MHz
	Dimensions: W-H-D	48.5 - 55 - 13.5 cm (3U Rack Unit)
	Weight	25 kg
	RF Power Stage Technology	LDMOS
	Automatic Power RF Control	Stabilized output power value on the set value
	Overall Output Power RF Stab	
	Cooling System	Forced air-cooling
	Remote Control	Yes. SNMP. Optional
	RS232 / RS485	2xRS485 (RJ45), 1xRS232 (DB9). RS232 only for printer. RS485 for communication with other devices
	Points of Measure	RF Sample
	L/R Input Level	-3 to +9 dBm
AUDIO & RF DATA	L/R Level Adjustment	Soft adjust 0.1 dBu steps from front panel
	L/R Input Impedance	600 ohm balanced, 10K ohms unbalanced
	MPX Input Level	+15/-10 dBu for 75 KHz standard deviation
	•	
	MPX Input Impedance AES/EBU input resolution	5 K unbalanced 24 bits
	AES/EBU input sample rate	32, 44.1, 48, 96, 192 KHz automatically selected
	AES/EBU input level	-20 dBFS - 0 dBFS
	AES/EBU input impedance	110 Ohm unbalanced
	SCA/RDS input level	0 dBu for 10% deviation
	PILOT Tone Frequency	19 KHz
	PILOT Tone Frequency Stabili	
	THD+N (stereo/mono operatio	
	THD+N (Mpx operation) Pre-emphasis	< 0.01% or better with 75 KHz frequency deviation at 30 Hz to 15 kHz 50/75µs selectable
	Pre-emphasis Tolerance	± 0.1 dB
	Pre-emphasis folerance	I U. I UD
	FM S/N CCIR Mono/Stereo	>80dB weighted >80dB unweighted @400Hz, 75KHz deviation, quasi-peak detector, 50us de-emphasis
	FM S/N MPX	85 dB 20 Hz to 23 KHz @ 53 KHz - detector RMS
	Amplitude-frequency characte	± 0.15 dB, 30 Hz to 15 KHz
	Linear crosstalk	> 70 dB 20 Hz to 15 kHz
	Intermodulation distortion	<0.05% Measured with two of tones 1 kHz & 1.3 KHz, ratio 1:1 at 100% modulation
	Class of Emission	F3
	Stereo Emission	According to ITU-R recomendation 450 (pilot tone)
	PLL Lock Time	110 ms
	Frequency Deviation	± 75 KHz
	Maximum Frequency Deviation	
	Frequency Stability	± 1ppm from -5 to 45°C.
	RF Frequency Steps	100 KHz
INSTALLATION REQUIREMENTS	AC Voltage	180/264 V AC- 47- 63 Hz
	Power Consumption	1950 VA
	Current consumption @220V	AC 8.8 A
	Overall Eficiency	72%
	Power Factor	>0.95
ENVIRONMENT	Temperature Range (operating	- 5/ +45°C, 23 / 113°F
	Humidity Range (operating)	90% @ 40°C, 104°F
	Altitude Range (operating)	< 2000 meters / <13125 Feet
	MEDVALTD your	