

THOR DIGITAL
SDMET Series
Encoder Modulators

***Single, Dual and Quad Program Encoders
with Internal Multiplexer / COFDM Modulator***



The Thor Digital SDMET series of digital modulators are designed to take a standard analog audio and video signal, digitally encode it and then modulate it on a DVB-T (COFDM) channel for distribution to a digital TV. There are 3 models available, SDMET-901 encodes a single program and outputs it to DVB-T, the SDME-902 encodes two separate programs (2 different A/V sources) and outputs them on a DVB-T, the SDMET-904 encodes four separate programs (4 different A/V sources) and outputs them on a single DVB-T.

Features:

- One, Two or Four Program Encoder / COFDM Modulator
- Multiplex All the Programs on One COFDM Channel
- Frequency Agile COFDM Channel, from 177.5 MHz to 816.5 MHz
- 85 dBuV RF Output Level
- Virtual Channel Numbering
- Short Program Name (7 Digits)
- 30 dB MER
- Rack Mount or Desktop

The SDME is a perfect solution for Small Cable Systems, Hotels, Motels, Hospitals, Sports Bars, Casinos, Restaurants, Gym's, Sports Books, Schools, Industrial or Commercial Applications and anywhere an A/V source needs to be added to a TV system.

SD Encoder / QAM Modulator

Specifications

	SDMET-901	SDMET-902	SDMET-904
INPUT	1 Program	2 Programs	4 Programs
Video Input	A/V x1	A/V x2	A/V x4
Video Input Level	0.7 - 1.4V (peak-to-peak)	0.7 - 1.4V (peak-to-peak)	0.7 - 1.4V (peak-to-peak)
Video Mode	PAL	PAL	PAL
Audio Input	Stereo	Stereo	Stereo
Audio Input Level	0.4 -4.8V (p-to-p)	0.4 -4.8V (p-to-p)	0.4 -4.8V (p-to-p)
Video & Audio Input Connectors	RCA	RCA	RCA
Input Impedance	75 Ω	75 Ω	75 Ω
OUTPUT			
Frequency Range	177.5 - 816.5 MHz	177.5 - 816.5 MHz	177.5 - 816.5 MHz
Output Level	85 dBuV	85 dBuV	85 dBuV
Output Impedance	75 Ω	75 Ω	75 Ω
Channel Bandwidth	6, 7, 8 MHz	6, 7, 8 MHz	6, 7, 8 MHz
Channel Level Adjustment	20 dB typical	20 dB typical	20 dB typical
MER	30 dB typical	30 dB typical	30 dB typical
Connector Type	"F" female	"F" female	"F" female
MODULATION			
Video Resolution	PAL 720x576 @ 25fps	PAL 720x576 @ 25fps	PAL 720x576 @ 25fps
Video Compression	MPEG2 MP @ ML	MPEG2 MP @ ML	MPEG2 MP @ ML
Audio Compression	MPEG1 Layer II	MPEG1 Layer II	MPEG1 Layer II
LCN	Yes	Yes	Yes
Carrier	2K / 8K	2K / 8K	2K / 8K
Guard Intervals	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8
Constellations	16 QAM / 64 QAM	16 QAM / 64 QAM	64 QAM
GENERAL			
Power Supply	12VDC @ 3A	12VDC @ 3A	12VDC @ 3A
Power Consumption	1110 mA (13.2 W)	1300 mA (15.6 W)	1700 mA (20.4 W)
Display Language	English	English	English
Dimensions	300 x 200 x 47 mm	300 x 200 x 47 mm	300 x 200 x 47 mm
Weight	1.66 kg	1.72 kg	1.86 kg