



## TCM-08 analogue single channel modulator unit

- Unit for 1 to 8 DSB modulator modules
- Multistandard modulator modules available in VHF and UHF
- High performance S/N ratio
- Excellent price/performance ratio
- Designed for semi-professional applications



# 8 analogue single channel modulator modules - in one unit

## Ideal solution for private cable systems, hotels, institutions, and SMATV applications

The TCM-08 is a compact 8 channel modulator unit designed for simple operation and high price/performance ratio.

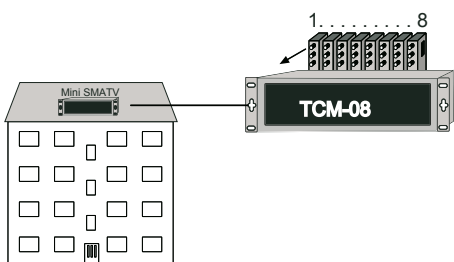
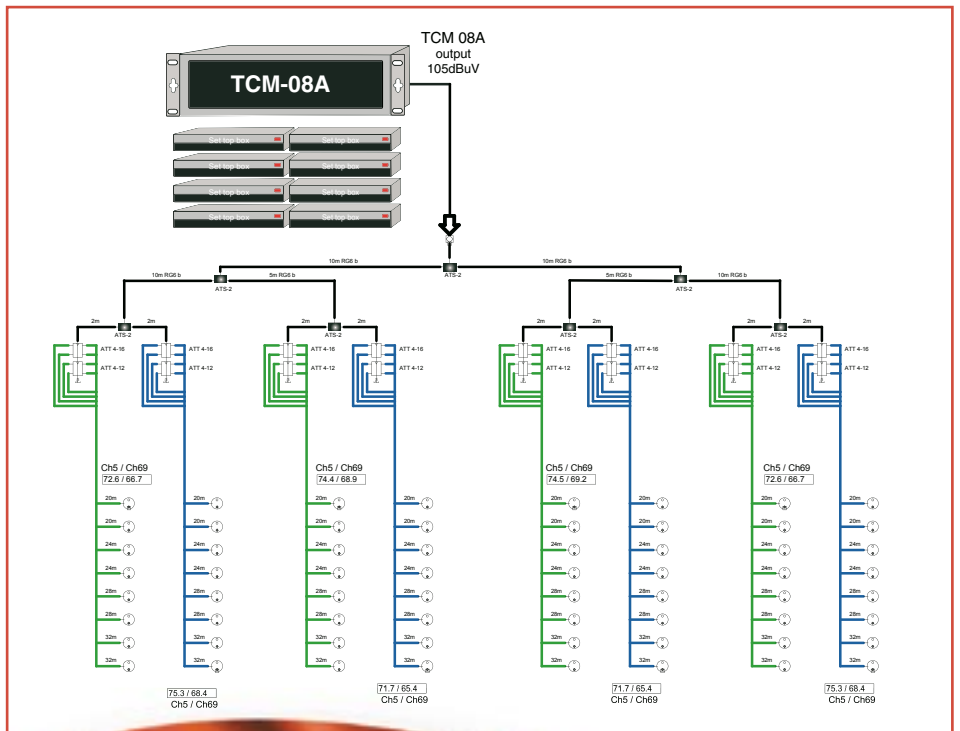
Hotels, motels, apartment buildings are typical applications for this semi-professional unit.

Having A/V sources coming from standard set-top boxes, the modulator modules deliver a number of high quality RF channels into a distribution network.

All RF cables for connecting and combining the signals are included together with the tooling for fastening the modulator modules.

### TCM-08 includes:

- Slots for up to 8 DSB CM-02 modulator modules
- Switch mode power supply
- RF combiner
- Medium or high output level.  
**TCM-08 = 80 dB $\mu$ V**  
**TCM-08A = 105 dB $\mu$ V**
- Can be mounted on wall or in 19 inch rack
- All included except the CM02 modulator modules



### The CM-02

modulator modules are designed for high performance signal quality. Programming of the output channel and setting of output level is done at each module individually by means of a DIP switch.

The CM-02 modules are easily mounted in the TCM-08 basic unit. The **VHF** and **UHF** modules can be mixed within the unit.

### CM-02 modulator modules feature:

- Double side band multistandard modulator
- Modules available in VHF or UHF
- High performance picture quality S/N >55
- Adjustable output level
- $\mu$ P controlled PLL synthesis for high stability

# TCM-08 single channel modulator

## Technical data - TCM-08 basic unit

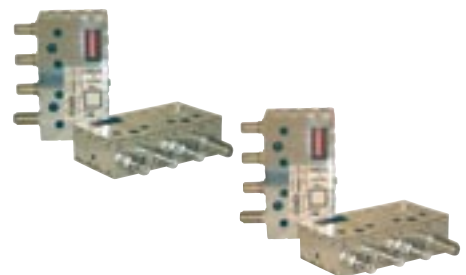
TYPE		TCM-08 Basic unit	TCM-08A Basic unit
Part No.		300110	300111
Output frequency range	MHz	47 - 862	47 - 862
Attenuation	dB		10
Output level max (with 8 channels) IMD - 60 dB	dBμV	<b>80</b>	<b>105</b>
Return loss output	dB	>14 @ 47 MHz (Min. 10 dB)	>14 @ 47 MHz (Min. 10 dB)
Output impedance	Ohm	75	75
Input voltage	V-ac	190 - 260	190 - 260
Power consumption (with 8 modulators)	W	17	20
RF output, OUT		1 x F-type	1 x F-type
Temperature, operation	°C	0..+50	0..+50
Temperature, storage	°C	-20..+70	-20..+70
Weight	kg	4.4	4.6
Dimensions (H x D x W)	mm	180 x 440 x 130	180 x 440 x 130



Fully fitted TCM-08

## Technical data - modulator module

TYPE		CM02V VHF modulator	CM02U UHF modulator
Part No.		490898	490899
TV system		(B-D-I-L)+(AU/NZ)	(G-K-I-L)+(AU/NZ)
Output frequency range	MHz	175-342	470 - 862
Picture carrier stability	kHz	< +/-70	< +/-70
Spurious signals ref. picture carrier	dB	> - 60	> - 60
Output level max.	dBμV	95 +/- 2,5	95 +/- 2.5
Output impedance	Ohm	75	75
Return loss	dB	> 10	> 10
Differential gain	%	< 8	< 8
Differential phase	Deg.	< 8	< 8
Crominance / luminance delay	nS	< 80	< 80
Luminance non-linearity	%	< 8	< 8
Video S/N ratio	dB	> 55	> 52
Sound sub carrier	MHz	5.5 / 6.0 / 6.5	5.5 / 6.0 / 6.5
Sound sub carrier stability	kHz	< +/-5	< +/-5
Audio distortion, 1 KHz	%	< 1	< 1
Audio S/N ratio	dB	> 55	> 55
<b>Video:</b>			
Input level	V <sub>pp</sub>	0.8-1.3	0.8-1.3
Input impedance	Ohm	75	75
<b>Audio:</b>			
Input level	V <sub>rms</sub>	0.5-1.0	0.5-1.0
Input impedance	kOhm	10	10
<b>Power supply</b>			
Voltage	V-dc/mA	12/117	12/110
Power consumption	W	1.4	1.5
<b>Connectors</b>			
RF output, OUT		1 x F	1 x F
Audio/Video input		3 x RCA	3 x RCA
Power supply		Via RF output	Via RF output
Temperature, operation	°C	0..+50	0..+50
Weight	kg	0.1	0.1
Dimensions L x B x H	mm	96 x 25 x 67	96 x 25 x 67



### Video/audio cable

Modulator cable with scart and  
3 phone connectors - 150 cm  
Part No. 300743



### Spare RF connection cable

Lenght 20 cm Part No. 452090  
Lenght 35 cm Part No. 452091



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