

# TRIAX

## TCM-08



## TCM-08 analogue single channel modulator unit

- Unit for 1 to 8 DSB modulator modules
- Multistandard VHF and UHF modulator modules available
- High performance S/N ratio
- Cost effective
- Designed for professional installations

Simply more  
- more simply





# 8 analogue single channel modulator modules in one unit

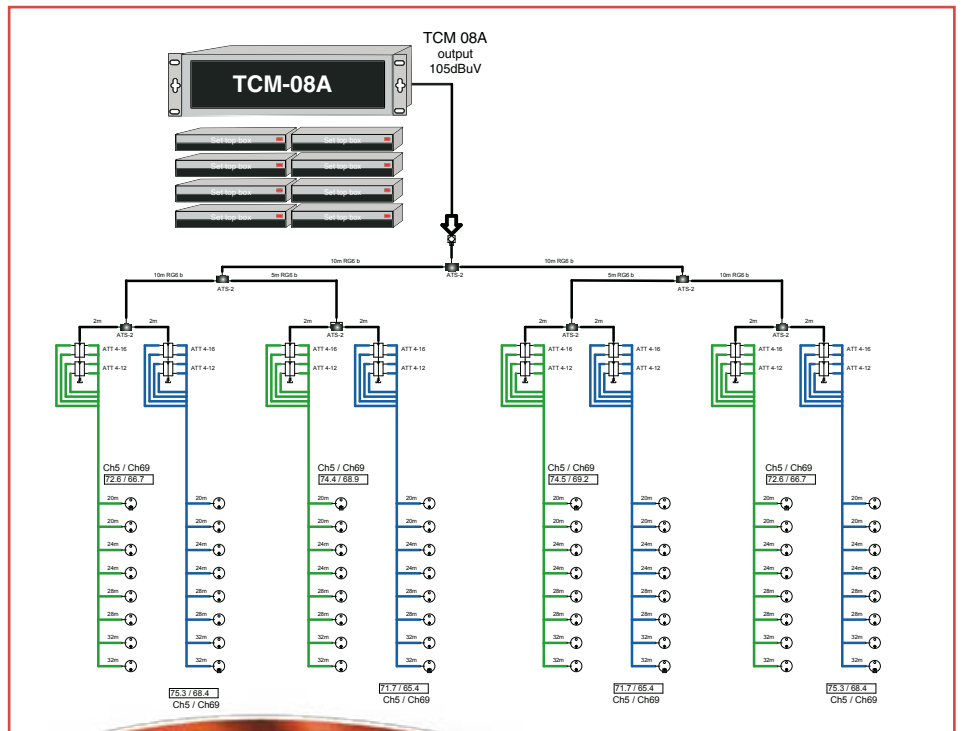
## The ideal solution for SMATV applications

The TCM-08 is a compact, 8 channel modulator unit designed with simple operation in mind. It provides a cost effective solution for your SMATV system requirements.

Typical applications include hotels, hospitals, MDU's, etc.

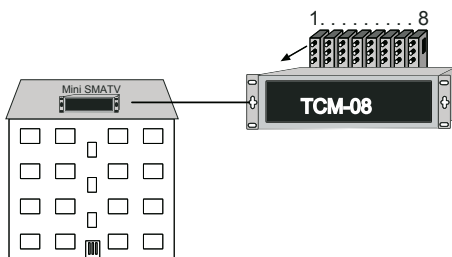
Set-top boxes provide A/V inputs to the modulators, while the TCM-08 unit provides up to eight R.F. channels for the distribution system.

All R.F. cables for connecting and combining the signals are included together with the tools 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
- CM02 modules ordered as required



### CM-02

The CM02 modulator modules are designed to a high specification. Programming of the output channel (by means of a DIP switch) and setting of output level is done at each module individually. 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 for 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

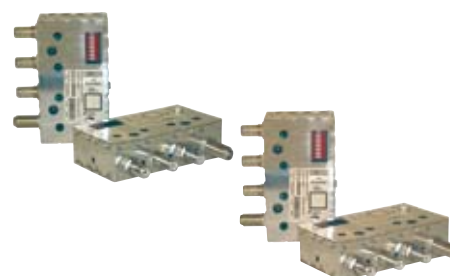
TYPE		TCM-08 Basic unit	TCM-08A Basic unit
Part No.		300110	300111
Output frequency range	MHz	47 - 862	47 - 862
Attenuation	dB		10
Output level max (with 8 channels) IMD - 60 dB	dBμV	<b>80</b>	<b>105</b>
Return loss output	dB	>14 @ 47 MHz (Min. 10 dB)	>14 @ 47 MHz (Min. 10 dB)
Output impedance	Ohm	75	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

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



Triax reserves the right to change specification at any time without prior notice

# Simply more - more simply....

Triax's philosophy is customer-orientation: In both our markets, TV-systems and enclosures, our objective is to save time and trouble for the installers, operators and distributors building their business on our products.

Simplicity and support are key words, expressed both in products and in service. Our products offer more in performance and simplifying logic, and in our support, customers have easy access to understandable, useful and competent answers.

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