

SUNNISKY AM108 8 in 1 Multi-RF Format Compact CATV Intergrated Agile Modulator

SUNNISKY AM108 is one 8 in 1 agile channel audio/video modulator for CATV headend system application with the function of combiner and amplifier in 1U chassis. It uses SAW filter to achieve optimum VSB (Vestigial sideband) and harmonics suppression. The phase lock of CPU and its control circuit provide the better performance. It realizes low non-linear distortion and +45dBmV (105dBμV) standard RF output level by the independent hybrid amplifying module, and is tunable for any CATV channel frequency from 47 to 860MHz.

In particular, RF output with PAL D/K, PAL B/G, NTSC or SECAM TV format could be directly selected on its front panel, and it could be easily control LCD by advanced micro-processor (CPU).

So it offers to user one better and compact equipment with better performance and flexibility for the lowest cost. Also it is the best choice for CATV/SMATV headend system, especially for residential quarters or In-Hotel, school etc.



Feature

- Built-in magic 8pcs Modulator modulse, its small size and low profile will fit all of applications
- Control LCD by advanced micro-processor
- LCD display and easy to operate
- Compatible with PAL D/K, PAL B/G, NTSC and SECAM TV format , which could be directly selected by operation to its front panel
- 47 to 860MHz agile output with any one RF frequency
- +45dBmV(105dBμV) RF output level by hybrid amplifier with low distortion products
- High performance SAW Vestigial sideband filter for superior adjacent channel performance to assure ultimate feature
- -60dBc spurious performance in full 870MHz bandwidth
- Better video and audio linearity for superior picture quality
- Automatically restored after power failure
- Running continuously with excellent stability

Specification

RF Output	
Frequency range	47~860MHz under PAL D/K, PAL B/G, NTSC, SECAM format
RF output level	85~105dBμV (Max.), adjustable from front panel
Spurious output	60dB below video carrier with A/V ratio @ -15dB
Vestigial Sideband Response	<-60dB
Frequency stability	±5 KHz
Aural carrier control range	-13 to -20dB below visual carrier (Continuously Adjustable)
Output impedance	75Ω
Reflect loss	<-16dB
VIDEO Input	
Input type	Negative Sync. Composite Baseband Video
Video input level	1.0Vp-p for 87.5% modulation depth
Video impedance	75Ω, unbalance
Video frequency response	±0.75dB
Chrominance / Luminance (C/L) delay	±45ns
Differential gain	≤5%
Differential phase	≤5 deg.
Signal to Noise Ratio (S/N)	≥55dB
AUDIO Input	
Audio carrier	4.5/5.5/6.5MHz

Pre-emphasis	50 μ s
Audio input level	0dBm \pm 6
Audio impedance	10K Ω
Audio frequency response	\pm 1.5dB Max. (50Hz ~ 15KHz)
General	
Input voltage	90~264V AC (When placing order, need to confirm) , 47~63Hz
Input power	20W
Working temperature	0~45 $^{\circ}$ C
Net Weight	4.5Kg
Gross Weight	5.5Kg
Net Dimension	483mm \times 385mm \times 45mm
Dimension	530mm \times 500mm \times 95mm

Note: All specifications are subject to change without notice.



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