

SUNNISKY AM1000 CATV Adjacent Frequency Agile TV Modulator

The SUNNISKY AM1000 is a high performance adjacent agile channel audio/video modulator for CATV headend system application. It uses high quality SAW filter to achieve optimum VSB (Vestigial sideband) and harmonics suppression. Both Visual and aural carriers are PLL (Phase lock loop) synthesized to provide ultimate accuracy and stability. It realizes low non-linear distortion and +58dBmV standard RF output level from 54MHz to 860MHz accommodating HRC and IRC off-air frequencies by the best hybrid amplifier, and is tunable for any CATV channel frequency from 47 to 866.25MHz.

In particular, the built-in magic agile upconverter module that has feature of high efficiency and stable performance with small size and low profile to fit all applications, and could be easily controlled by advanced micro-processor (CPU).

So it offers the user a high-efficient equipment with stable performance and flexibility for very nominal cost. This low price and these superior performances of the SUNNISKY AM1000 make it the best choice for CATV headend system, especially for residential quarters or In-Hotel, school etc. to add TV programs.



Feature

- Built-in magic upconverter module, its small size and low profile will fit all applications
- Controlled by advanced micro-processor
- LCD display and parameter setup by three keys on its front panel
- **With PAL D/K or PAL B/G or NTSC or SECAM (When placing order, need to confirm) TV format** 47 to 866.25MHz agile output with any one RF frequency
- **+58dBmV** 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 860MHz bandwidth
- Both Visual and aural carriers are PLL (Phase lock loop) synthesized to prevent frequency drift, and meet FCC stability and accuracy regulation
- Excellent video and audio linearity for superior picture quality
- SAW filtered IF out / in loop for encoder and video override applications or emergency alert
- Automatically restored after power failure
- Simply push button to choose over hundred channels
- Running continuously with excellent stability

Specification

RF Output	
Frequency range	47~866.25MHz under PAL D/K, PAL B/G, NTSC, SECAM format (Before order it, please confirm which TV format is)
RF output level	30~58dBmV (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
IF	

IF Frequency	38MHz (Fp.)or 38.9MHz (Fp.) optional
IF input and output level	90dB μ V (75 Ω)
VIDEO Input	
Input type	Negative Sync. Composite Baseband Video
Video input level	1.0Vp-p for 87.5% modulation depth
Video impedance	75 Ω , unbalance
Video frequency response	\pm 1dB
Chrominance / Luminance (C/L) delay	\pm 35ns
Differential gain	\leq 3%
Differential phase	\leq 3 deg.
Signal to Noise Ratio (S/N)	\geq 60dB
AUDIO Input	
Pre-emphasis	50ms
Audio input level	0.25V RMS with 15KHz bandwidth
Audio impedance	10K Ω
Audio frequency response	\pm 1.5dB Max. (50Hz ~ 15KHz)
General	
Input voltage	90 to 250V AC
Input power	20W
Net Weight	3.5Kg
Gross Weight	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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