

SUNNISKY AM1000-A2 PAL BG or SECAM B/H Professional CATV A2 Stereo Adjacent Agile TV Modulator

SUNNISKY AM1000-A2 modulator 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. With being built-in micro-processor, more than 100 pre-setting CATV channels can be setup to output with low non-linear distortion and normal 100dBμV maximum output level from 47MHz to 862MHz working frequency range by aid of the best hybrid amplifier, and is tunable for any CATV channel frequency from 47MHz to 862MHz. All the operations can be done via 6 keys on the front panel.

In particular, the built-in magic agile up-converter 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 one high-efficient equipment with stable performance and flexibility for very nominal cost. This low price and these superior performances of AM1000-A2 modulator 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
- PAL BG or SECAM B/H A2 stereo Audio signal could be selected to input
- 47MHz to 862MHz agile output by 250KHz step size to enable user tune to any frequency
- +40dBmV RF output level@48~862MHz Off-Air CATV (STD, HRC, IRC) (Optional) with low distortion products
- High performance SAW Vestigial sideband filter to assure ultimate feature
- -60dBc spurious performance in full 870MHz 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 one hundred channels
- Led display on front panel and user friendly controls
- Running continuously with excellent stability

Specification

RF Output	
Frequency range	47~862MHz with 250KHz step under PAL D/K, PAL B/G, NTSC, SECAM B/Hformat (Before ordering it, please confirm what TV format is)
RF output level	82~100dBμV, adjustable from front panel
Spurious output	60dB below video carrier with A/V ratio @ -15dB
Vestigial Sideband Response	<-60dB
Frequency stability	±10KHz
Output impedance	75Ω
Reflect loss	<-12dB
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	± 1dB
Chrominance / Luminance (C/L) delay	≤± 35ns
Differential gain	≤4%@ 87.5% Modulation depth
Differential phase	≤4 deg. @ 87.5% Modulation depth
Signal to Noise Ratio (S/N)	≥50dB
AUDIO Input	
Pre-emphasis	50μs
1 st Sound Sub-Carrier to Video	5.5MHz±2KHz (SECAM B)
Video to 1 st Sound power ratio	12dB (Type)
2 nd Sound Sub-Carrier to Video	5.7421875MHz±2KHz (SECAM B, A2)
Video to 2 nd Sound power ratio	20dB (Type)
Sound Modulation Deviation	±50KHz @ 0dBm±6dB Audio input level
Sound Harmonic Distortion	≤0.8%
Signal to Noise Ratio (S/N)	≥60dB
General	
Input voltage	100 to 240V AC, 50~60Hz,
Input power	20W
Net Weight	3.5Kg
Gross Weight	4.5Kg
Net Dimension	483mm×252mm×45mm
Dimension	550mm×360mm×180mm

Note: All specifications are subject to change without notice.



北京阳天宽频网络技术有限公司
 Beijing Sunnisky B. N. T. Co. Ltd
 Tel: 0086-10-62102126 FAX:0086-10-82645461
 E-mail: sales@sunnisky.com
www.sunnisky.com