



DSM2500C

16in1/32in1/48in1/64in1 IP to Analog Modulator

1U Chassis for 16in1&32in1

2U Chassis for 48in1&64in1



❖ *Support A2 and NICAM728 mono and stereo audio, up to dual channels*

Audio options available:

- ❖ Mono L, Mono R, Mono L+R
- ❖ A2 Dual Mono (L, R), A2 Stereo
- ❖ NICAM Dual Mono (L, R), NICAM Stereo

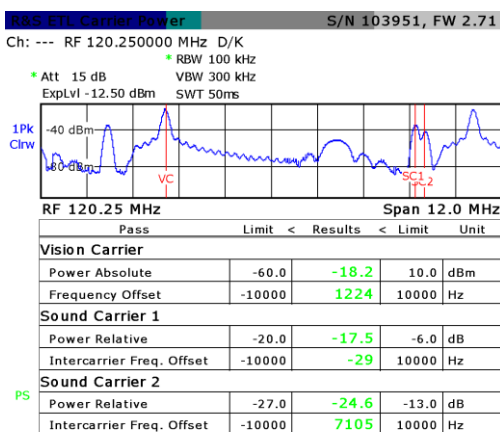
Knowledge about A2 and NICAM 728 audio:

NICAM 728:

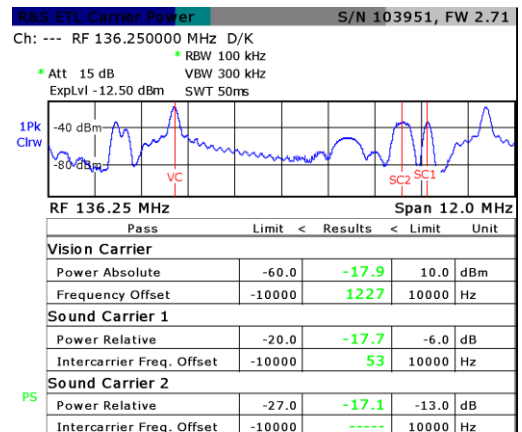
It is transmission of two-channel digital sound with terrestrial television systems B, G, H, I, K1 and L

A2 Stereo:

Known as "two-channel sound", it is an analog television sound transmission system used in Germany, Austria, Australia, Switzerland, Netherlands and some other countries that use or used PAL-B or PAL-G. It relies on two separate FM carriers.



A2 Audio Spectral Diagram



NICAM Audio Spectral Diagram



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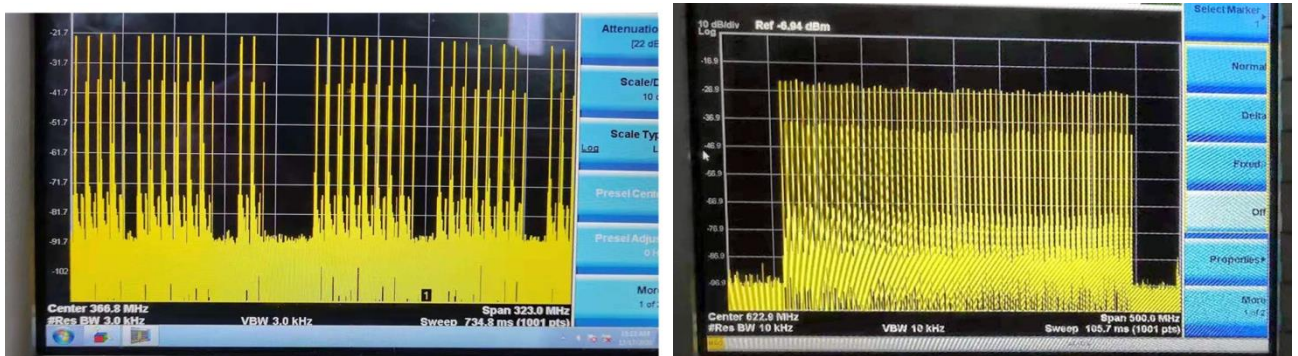
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❖ *Support High SFDR Performance*



❖ *Full Digital Processing, Super RF out performance*



❖ *Support OSD (Logo&Caption) insertion for each channel, easy operation*



❖ *Support Multiple-modulation Standard*

32 (or 16/48/64) standard PAL or NTSC or SECAM TV programs output via 32 (or 16/48/64) non-adjacent or adjacent carriers output within 400MHz

Other Key Features

- Support to convert 32 (or 16/48/64) IP channels (or 4 HDMI/AV+28 IP channels, or 8 HDMI/AV+24 IP channels) to analog RF out
- Support CC/Subtitle/Teletext
- Support BISS De-scrambling
- Support program info modify, multiple audio select
- 2 (or 4) GE ports for IP MPTS/SPTS input, Max 840Mbps for each GE input
- Support HEVC/H.265, H.264/AVC, MPEG-2 TS Decoding
- 32 (or 16/48/64) standard PAL or NTSC or SECAM TV programs output via 32 (or 16/48/64) non-adjacent or adjacent carriers output within 400MHz
- Redundancy power supply for option
- Compact body, Freight saving
- Support Web-based Network management

Specifications

Input	Interface/rate	32 (or 16/48/64) IP (or 4 HDMI/AV+28 IP, or 8 HDMI/AV+24 IP) input 2 /4 GE ports (max 64 IP input) Max 840Mbps for each GE input
	Stream	UDP, UDP / RTP, 1-7 packets (SPTS/MPTS)
	Transport Protocol	UDP/RTP, unicast and multicast, IGMP V2/V3
	Packet Length	188 / 204 Bytes
Decoding Parameters	Video format	HEVC/H.265, H.264/AVC, MPEG-2
	Audio format	MPEG-1/2 Layer 1/2, (HE-)AAC, AC3
	Audio channels	Mono L, Mono R, Mono L+R A2 Dual Mono (L, R), A2 Stereo NICAM Dual Mono (L, R), NICAM Stereo (Note: when applying dual audio, one TV program with dual audio will occupy 2 frequencies, which means the total output channels will reduce respectively.)
	Data	CC, Teletext, Subtitles, DVB Subtitling
	Resolutions	HEVC/H.265: 1080@60P, 1080@60I, 1080@50P, 1080@50I, 720@60P, 720@50P H.264/AVC: 1080@60I, 1080@50P, 1080@50I, 1080@30P, 1080@25P, 720@60P, 720@50P, 576@50I, 480@60I MPEG2: 1080@60I, 1080@50I, 720@60P, 720@50P, 576@50I, 480@60I
Aspect ratio	4:3	

Modulation Parameters	Number of channels	32 (or 16/48/64) non-adjacent or adjacent carriers output
	Connectors	75 Ω , F-jack
	Frequency range	43.25 – 951.252MHz
	Output Bandwidth	400MHz
	Output level	-5 ~ 2dBm (102 ~ 109dB μ V)
	Return loss	\geq 14dB
	Spurious frequency dist.	\geq 60dB
	Residual carrier accuracy	1%
	TV standard	PAL B/G/D/K/M/N/I, NTSC M, SECAM
	Video-signal to noise ratio	\geq 60dB
	Carrier to noise ratio	\geq 60dB (when single carrier on) \geq 55.5dB (when all 32 carriers on)
Network Interface	Management	1 x 100 Base-T Ethernet (RJ 45)
	Data	2 x 1000 Base-T Ethernet (RJ 45)
Others	Image resolution output	480i/576i
	OSD	Logo : JPG, BMP, PNG
		Caption : support multiple languages, scrolling direction and speed customized
Output volume adjustment	0 - 100 %	
General	Demission	483mm×330mm×44.5mm (1U) 483mm×330mm×88mm (2U)
	Temperature	0~45 $^{\circ}$ C (operation), -20~80 $^{\circ}$ C (storage)
	Power Supply	AC100V \pm 10%, AC 220V \pm 10%, 50/60Hz Redundancy power supply (Optional)

Order Guide

Options	Configuration
Option 1	16 or 32 IP input, 16 or 32 analog channel outputs
Option 2	4 HDMI+28 IP input, 32 analog channel outputs
Option 3	8 HDMI+24 IP input, 32 analog channel outputs
Option 4	4 AV+28 IP input, 32 analog channel outputs
Option 5	8 AV+24 IP input, 32 analog channel outputs
Option 6	48 or 64IP input, 48 or 64 analog channel outputs

System Construction Illustration

