UV218DS Series Video Distribution Amplifier

(2007-03)

Features

- Colored BMP with resolution 640(W) by 64 (H)
- Two sets of logo displayed in sequence; may be turned off if not required
- Transparency control of logo background
- Adjustable position of logo display on screen
- Adjustable position of date/time display on screen
- Real Time Clock Display with on/off control

Specifications

Electrical Requirement

Power Source	:	±10DC
Power Consumption	:	1W

Environmental Performance

Temperature	:	Storage - -10°C to 105°C Operating - 0°C to 70°C
Humidity	:	90% Saturated

Video Performance

Picture Signal	:	0.7 ± 0.1V
Sync. Signal	:	0.3 ± 0.05V
Gain	:	unity (into 75 ohm termination)
Frequency Response	:	50HZ to 8MHZ ± 0.5dB
Signal-to-noise Ratio	:	> 53dB, un-weighted
Hum	:	at least 55dB below wanted signal
Cross-talk	:	at least 55dB below wanted signal at 3.58MHZ
Feed-through (input-to-input isolation)	:	better than -50dB at 3.58MHZ
Luminance Non-linearity	:	< 4%
Luminance-to-chrominance Gain Inequality	:	± 4%
Differential Gain	:	< 4%
Differential Phase	:	< 4 degree
Video Output Channel	:	6 or 12
Video Input Loss Detect	:	Relay NO/NC

Interface Definitions

Connector	:	IDC Card Edge Connector
Pin Assignment	:	Pin 1 – RXD (TTL Level) Pin 10 – TXD (Open Drain) Pin 5 – Relay NC Pin 7 – Relay Common Pin 6 – Relay NO Pin 13/14/15/16 – Power +9VDC Pin 21/22/23/24 – Power -9VDC Pin 30/31 – Composite Video Input Pin 41/44/45/48/49/52 – Video Output Pin 53/56/57/60/61/64 – Video Output Pin 3/4/9/11/12 – GND Pin 17/18/19/20 – GND Pin 29/32/33/34/35/36 – GND Pin 38/39/42/43/46/47 – GND Pin 50/51/54/55/58/59/62/63 – GND

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Specifications

Communication Protocol

Low Level Protocol	:	Asynchronous
Baud Rate	:	38400 bps
Start Bit	:	1 bit
Data Length	:	8 bits
Parity	:	None
Stop Bit	:	1 bit
High Level Protocol	:	Available upon request

Man Machine Interfaces : Status Indications

LED Color	Function	Remark
Yellow	Video	Blinks when video present; Stay ON with no video
Green	Alarm	Stay ON when video signal
Red	Power	Stay ON when power is turned on

Man Machine Interfaces : Video Adjustments

Switch / LED	Function	Remark
S1	MODE	Initially the BRIGHTNESS is selected. Every time the S1 is pressed, the COLOR and the CONTRAST will be selected in turn.
S2	Value Increment	When one of the above is selected, the value will be incremented and the result will be shown on the numeric display.
S3	Value Decrement	When one of the above is selected, the value will be decremented and the result will be shown on the numeric display.
Blue LED	Brightness	When ON, indicate the brightness control to be adjusted
Blue LED	Color	When ON, indicate the color depth to be adjusted
Blue LED	Contrast	When ON, indicate the contrast level to be adjusted
Segment LED	Value	Value of one of brightness, color, and contrast

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