

STANAG2LVDS

Stanag3350-to-LVDS scan converter



The STANAG2LVDS is an intelligent stand-alone scan converter that accepts a STANAG3350 interlaced RGB input and converts it to progressive digital LVDS output for display on digital flat panels.



The STANAG2LVDS features high speed analog signal digitization, video scaling, frame rate conversion and a timing generator. This provides seamless and automatic conversion of STANAG3350 Interlaced RGB signals to progressive digital LVDS output for driving common displays.

The STANAG2LVDS accepts STANAG3350 video as separate red, green, blue signals with the video synchronization pulse embedded in the green signal.

The STANAG2LVDS is an intelligent stand-alone device with its own on-board MPU and does not require a host CPU or any driver software. For mechanical convenience the module can be mounted on a PCI-104 stack without consuming host CPU resources.

Rev A.00
Subject to change without notification

Convert
STANAG3350
Interlaced RGB
to
Progressive
digital LVDS

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**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS



On-board
MPU
for
Intelligent,
Stand-alone
Operation

Applications

Aerospace instrumentation
Instrument panel
Multi-function display (MFD)
Situational Awareness
Radar information display
Naval/Marine instrumentation
Border Security
Traffic Monitoring and Control
Video Acquisition and Analytics

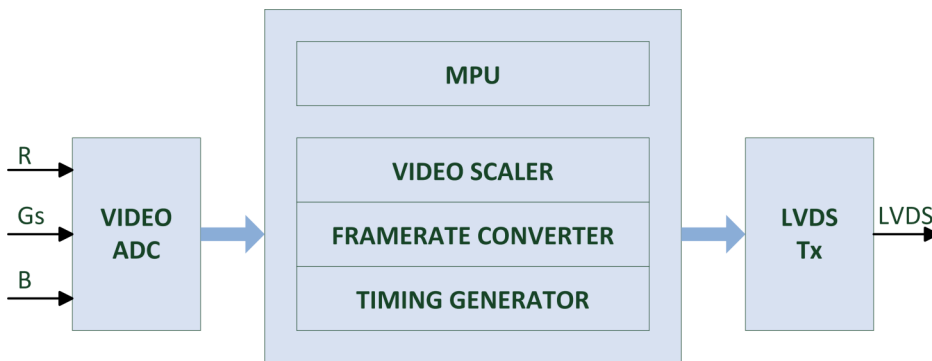
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STANAG2LVDS Functional Diagram

Aerospace and
Marine
Instrumentation
Easily display
STANAG3350 on
LVDS displays

Features

- Converts STANAG3350 Class B to standard digital LVDS
- Separate RGB inputs with sync-on-green
- Supports LVDS output at 1024x768 (other resolutions by request)
- Single +5V power supply
- Stand-alone operation
- Operating system neutral
- Standard PCI-104 mechanical form factor

Analog Video Input

- Compliant with STANAG3350 Class B
- STANAG3350 Class B 625 lines @ 25fps (based on PAL)
- Separate Red / Green / Blue input with Sync-on-green
- Optional monochrome input
- 3x 10bit analog-to-digital converters

Digital Video Output

- 18bit LVDS output with 3x data lines and 1x clock line

Video Output Resolutions

- Preset at factory to 1024x768
- Four jumper selectable scaling modes
- Other resolutions available on request

Miscellaneous

- Intelligent stand-alone module, does not require host computer
- Standard 3.6 x 3.8in PCI-104 form factor
- Mechanical mounting for PCI-104 stack
- Single +5V supply @ 1.05A max (5.25W)
- Operating temp 0°C to 60°C
- Operating temp -40°C to +85°C (extended temp option)

Ordering Information

STANAG2LVDS

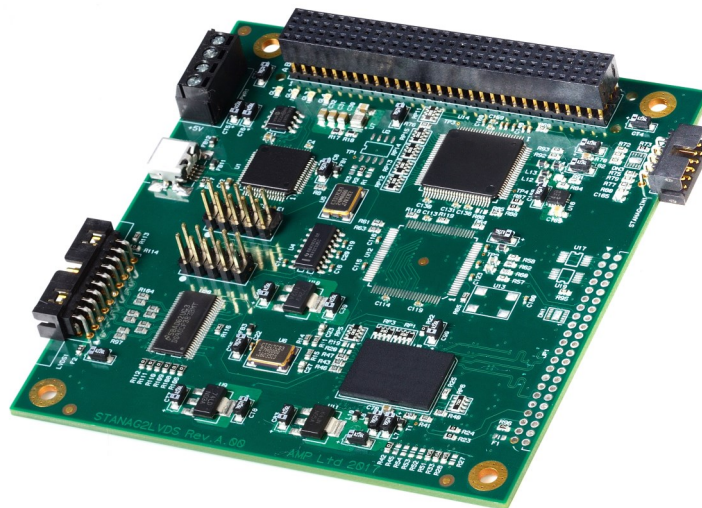
Stanag3350 Class B to LVDS scan converter (0 to 60°C)

STANAG2LVDS-EXT

Stanag3350 Class B to LVDS scan converter (-40°C to +85°C)

Cable-STANAG2LVDS

Cable set for STANAG2LVDS
(1x STANAG3350 Input cable)



STANAG2LVDS

