

VGASTANAG

VGA-to-STANAG3350 Converter



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The VGASTANAG is a scan converter module that accepts non-interlaced VGA signals at up to 1280 x 1024 resolution from any standard graphics card for conversion to high-quality STANAG 3350 compliant signals.



The VGASTANAG features high speed analog signal digitization, video scaling and frame rate conversion, and a timing generator. This provides seamless and automatic conversion of progressive analog VGA input to Interlaced RGB output conforming to STANAG 3350 requirements.

The STANAG 3350 video is output as separate red, green, blue signals with the video synchronization pulses embedded in the green signal. Three replicated outputs are provided. The VGASTANAG can be factory configured for Class A, Class B or Class C operation allowing it to be used immediately with no additional setup required.

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Subject to change without notification

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Computer
VGA/DVI to
STANAG 3350
Conversion



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In addition to analog VGA input the VGASTANAG is available with an option to support DVI input for conversion to high-quality STANAG3350 compliant signals.

The VGASTANAG is an intelligent stand-alone device with its own on-board CPU and does not require a host CPU or any special device driver software. For mechanical convenience it can be mounted on a PCI-104 stack but will not consume any host CPU resources.



STANAG 3350

Class A, B, C

Sync-on-Green

Output

Applications

Aerospace instrumentation

Instrument panel

Video surveillance

Retrofit, refurbishment, and upgrade

Multi-function display (MFD) applications

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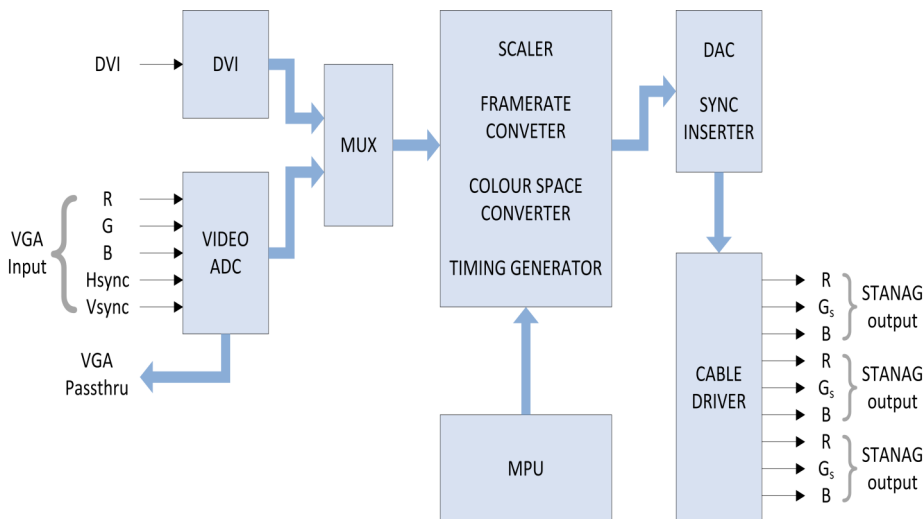
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VGASTANAG Functional Diagram

Features

Converts graphics card VGA to STANAG 3350 output

STANAG 3350 compliant Class A, Class B and Class C

Separate RGB outputs with synch-on-green

Three replicated buffered outputs

Supports up to 1280 x 1024 VGA resolution input

Simultaneous display on VGA and STANAG

Standard PCI-104 mechanical form factor

Stand-alone operation and O/S-neutral

Compact 3.8" x 4.5" PCI-104 stackable card form factor

Single +5V power supply

Avionic

Instrumentation

Multi-Function

Displays

Instrument Panels

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PCI-104 Bus Interface

Does not require PCI bus signal connection (on board MPU)
Remote or stand-alone operation
Mechanical mounting for PCI-104 stack

VGA Input

Progressive scan RGB, H-Sync, V-Sync from graphics controller
Triple 8-bit digitization
Automatic detection of input resolution
Up to 1280 x 1024 SXGA input resolution

Video Input Resolutions

SVGA	800 x 600
XGA	1024 x 768
SXGA	1280 x 1024

STANAG3350 Analog Video Output

10-bit digital-to-analog conversion
Red, Sync-on-Green, Blue
Supported output standards:
STANAG 3350 Class A 875 lines @ 30 fps (based on RS-343)
STANAG 3350 Class B 625 lines @ 25 fps (based on PAL)
STANAG 3350 Class C 525 lines @ 30 fps (based on NTSC RS-170A)
Three replicated, buffered outputs (x3 RGB cable drivers)

VGA Analog Video Output

VGA Pass-thru output

DVI Video Input (option)

DVI progressive input
Automatic detection of input resolution
Up to 1280x1024 SXGA input resolution.

Miscellaneous

Single +5V supply
Operating Temp of 0°C to 60°C
Extended Temperature -40°C to +85°C (option)
Standard 4.5 x 3.8in PCI-104 form factor (with I/O extensions)

Related Products

STANAGVGA-IS Stanag3350-to-VGA converter

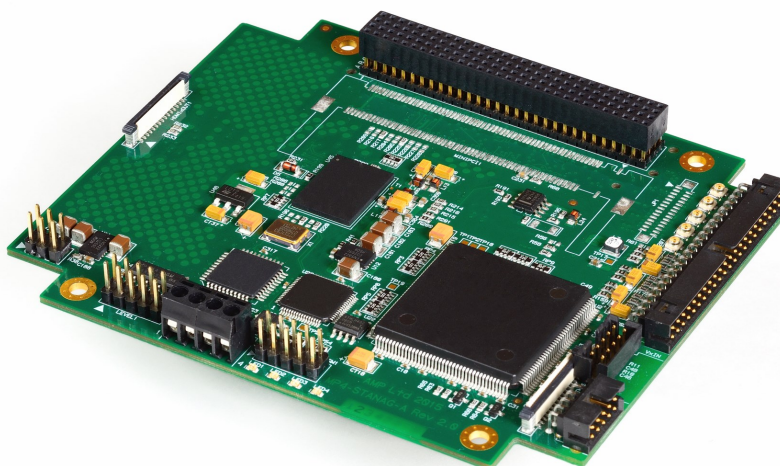
Ordering Information

STANAG 3350 Output (0 to +60°C)

VGASTANAG-A	STANAG-Class-A Output
VGASTANAG-B	STANAG-Class-B Output
VGASTANAG-C	STANAG-Class-C Output

STANAG 3350 Output (Ext Temp -40 to +85°C)

VGASTANAG-A-Ext	STANAG-Class-A Output
VGASTANAG-B-Ext	STANAG-Class-B Output
VGASTANAG-C-Ext	STANAG-Class-C Output

**VGASTANAG**