

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

Computer
VGA to
STANAG 3350
Conversion

Advanced Micro Peripherals Ltd
Cambridge, CB6 2HY, England
Tel (+44) 1353 659500
Fax (+44) 1353 659600
sales@ampltd.com
<http://www.ampltd.com>

Advanced Micro Peripherals Inc.
New York, NY10001, USA
Tel (+1) 212 951 7205
Fax (+1) 212 951 7206
sales@amp-usa.com
<http://www.amp-usa.com>



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input to Interlaced RGB output conforming to STANAG 3350 requirements.

The STANAG 3350 is output as separate red, green, blue signals with the video synchronization pulses embedded in the green signal.

The VGASTANAG is an intelligent stand-alone device with its own on-board CPU and does not require device driver software. It can however be mounted on the PCI-104 stack for mechanical convenience without consuming host CPU resources.

Features

Converts graphics card VGA to STANAG 3350 output

Separate RGB outputs with synch-on-green

Supports up to 1280 x 1024 VGA resolution input

Simultaneous display on VGA and STANAG

Standard PCI-104 form factor

Stand-alone operation and O/S-neutral

Single +5V power supply

Applications

Aerospace instrumentation

Instrument panel

Video surveillance

Multi-function display (MFD) applications

STANAG 3350

Class A, B, C

Sync-on-Green

Output

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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

Serial Interface (option)

Diagnostic /configuration serial port
 Standard RS-232 port

Analog Video Input

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

Video Input Resolutions

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

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)

Miscellaneous

Single +5V @ 5.8W (max)
 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

Tiny-LX	AMD LX800 based PCI-104 computer
Tiny886ULP	Transmeta Crusoe based PC/104-Plus computer
VTV2000	PC/104-Plus VGA-to-TV 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

