

# STANAGVGA-IS

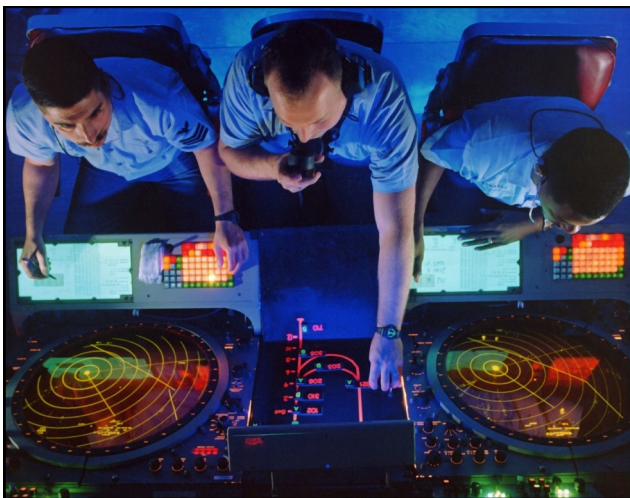
Stanag3350-to-VGA converter



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The STANAGVGA-IS is an intelligent stand-alone scan converter that accepts a STANAG3350 input and converts to VGA signals. The STANAGVGA-IS is available to order to support STANAG3350 Class A, Class B or Class C operation



The STANAGVGA-IS 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 analog VGA output.

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

The STANAGVGA-IS is an intelligent stand-alone device with it's 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.02

Subject to change without notification

Convert  
STANAG3350  
Class A, B, or C  
to  
Standard  
Analog  
VGA

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On-board

MPU

for

Intelligent,

Stand-alone

Operation

## Applications

Aerospace instrumentation

Instrument panel

Multi-function display (MFD)

Situational Awareness

Remote Video Surveillance

Naval/Marine instrumentation

Border Security

Traffic Monitoring and Control

Video Acquisition and Analytics

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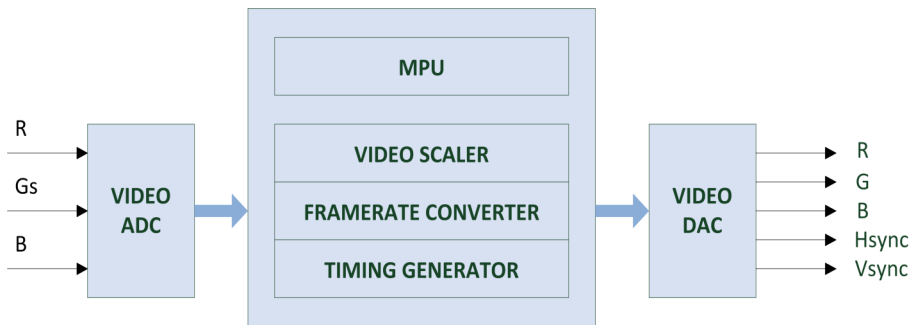
# STANAGVGA-IS

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**STANAGVGA-IS Functional Diagram**

## Features

Converts STANAG3350 Class A / B / C to standard analog VGA

Separate RGB inputs with sync-on-green

VGA output resolution based on STANAG class

STANAGVGA-IS-A - XGA, 1024x768

STANAGVGA-IS-B - SVGA, 800x600

STANAGVGA-IS-C - VGA, 640x480

Single +5V power supply

Stand-alone operation

Operating system neutral

Standard PCI-104 mechanical form factor

Aerospace and  
Marine  
Instrumentation

Border

Security

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### Analog Video Input

#### STANAGVGA-IS-A

Compliant with STANAG3350 Class A.  
STANAG3350 Class A 875 lines @ 30fps (based on RS-343)

#### STANAGVGA-IS-B

Compliant with STANAG3350 Class B.  
STANAG3350 Class B 625 lines @ 25fps (based on PAL)

#### STANAGVGA-IS-C

Compliant with STANAG3350 Class C.  
STANAG3350 Class C 525 lines @ 30fps (based on NTSC)

Separate Red / Green / Blue input with Sync-on-green  
3x 10bit analog-to-digital converters

### Analog Video Output

Progressive scan RGB, H-Sync, V-Sync (Analog VGA)  
10bit digital-to-analog conversion

### Video Output Resolutions

**STANAGVGA-IS-A** - XGA, 1024x768

**STANAGVGA-IS-B** - SVGA, 800x600

**STANAGVGA-IS-C** - VGA, 640x480

### 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  
Operating temp 0°C to 60°C  
Operating temp -40°C to +85°C (extended temp option)

### Related Products

H264-HD2000 - HD H.264 Compression card for PC/104-Plus

### Ordering Information

#### STANAGVGA-IS-A

Stanag3350 Class A to VGA scan converter (0 to 60°C)

#### STANAGVGA-IS-A-EXT

Stanag3350 Class A to VGA scan converter (-40°C to +85°C)

#### STANAGVGA-IS-B

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

#### STANAGVGA-IS-B-EXT

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

#### STANAGVGA-IS-C

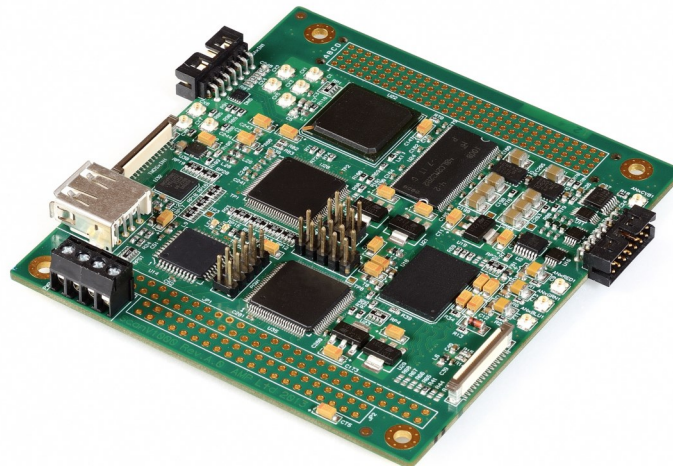
Stanag3350 Class C to VGA scan converter (0 to 60°C)

#### STANAGVGA-IS-C-EXT

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

#### Cable-STANAGVGA

Cable set for STANAGVGA-IS  
(3x u.FL-to-BNC coax input cables, 1x VGA output cable)



**STANAGVGA-IS**

