

COMPSTANAG

PAL/NTSC/RS170-to-STANAG3350 Converter



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The COMPSTANAG is a scan converter module that accepts analog PAL/NTSC/RS-170 video for conversion to high-quality STANAG 3350 compliant signals. Analog video can be converted from either composite or S-video input to STANAG3350 Class A/B/C signalling.



PAL/NTSC/RS-170 to STANAG 3350 Conversion

The COMPSTANAG features high speed analog signal digitization, video scaling and frame rate conversion, and a timing generator. This provides seamless and automatic conversion of PAL/NTSC video 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. 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.

Rev A.00 Preliminary Information
Subject to change without notification

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

Advanced Micro Peripherals Inc.
New York, NY10016, USA
Tel (+1) 212 951 7205
Fax (+1) 212 951 7206
sales@amp-usa.com
<http://www.amp-usa.com>



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The COMPSTANAG is an intelligent stand-alone device with its own on-board MPU 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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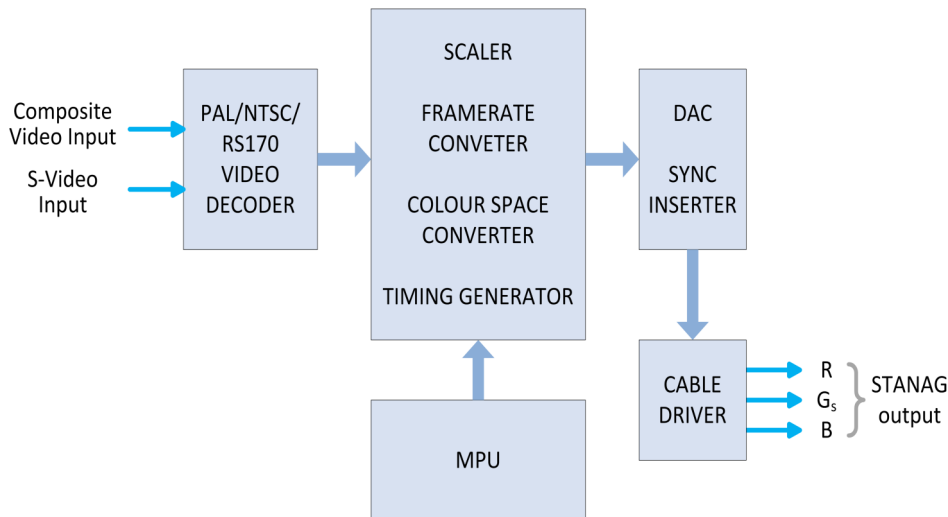
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COMPSTANAG Functional Diagram

Features

Converts analog PAL/NTSC/RS-170 to STANAG 3350 output

STANAG 3350 compliant Class A, Class B and Class C

Input from Composite or S-video source

Separate RGB outputs with synch-on-green

Supports ITU-R BT.601 standard sampling

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

Analog Video Input

One composite or One S-video input
High speed 9-Bit Analog-to-Digital converter (ADC)
ITU-R BT.601 Standard sampling

Video Input Standards

Standard CCIR601-NTSC, CCIR-PAL
NTSC-M, NTSC-Japan
PAL-B, PAL-D, PAL-G, PAL-H, PAL-I, PAL-M, PAL-N

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)

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)

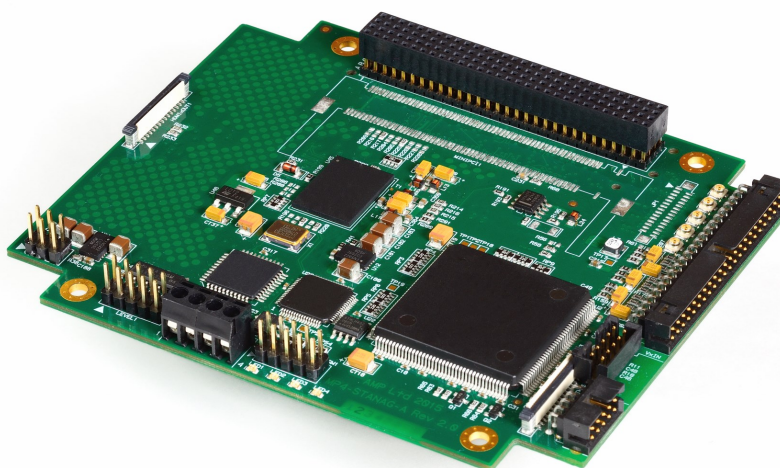
Ordering Information

STANAG 3350 Output (0 to +60°C)

COMPSTANAG-A	STANAG-Class-A Output
COMPSTANAG-B	STANAG-Class-B Output
COMPSTANAG-C	STANAG-Class-C Output

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

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

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