ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Harris / Aastra ENC-S11-PRO-D* at our website: *Click HERE*

15069-NetVX/Encoder/HR 3/28/03 2:19 PM Page 3

HARRIS

Connectivity Solutions

ENC-S11

NetVX™ MPEG-2 Multipurpose Encoder Module

NetVX™

Extending the Functionality of NetVX™

Beyond providing a simple solution for bi-directional transport over packet-based connections, NetVX's integrated encoding and decoding capability makes it ideal for a wide variety of production and distribution applications. The ENC-S11 MPEG-2 encoder module can encode both Main Level/Main Profile 4:2:0, CIF and Main Level/Professional Profile 4:2:2 video and accepts analog composite as well as SMPTE 259M SDI component video.

The ENC-S11 also encodes two stereo pairs of audio using Dolby AC-3 or MPEG-1 Layer 2 compression, SMPTE 302 or pre-compressed pass through audio. Primary and secondary stereo audio is accepted as AES3, balanced analog or embedded.

In addition, this module encodes VANC and VBI data that is present in the video input.

Features/Benefits

- Single module can handle MPEG-2 4:2:0 or 4:2:2 video
- Accepts SDI or analog video
- Provides dual stereo audio encoding
- Supports VANC and VBI signals
- Significantly increases NetVX functionality
- Available for low resolution confidence monitoring applications



Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

15069-NetVX/Encoder/HR 3/28/03 2:19 PM Page 2

Specifications

General

Systems Multiplex

Jitter Tolerance	<1ms of multiplex jitter; <500ns PCR jitter
Format	MPEG-2 Transport Stream
PSI Formats	ISO (IEC 13818.1 MPEG-2 Systems)

Multiplexed Program Bit Rates

Maximum Transport Stream Bit Rate	58 Mbps
– Video Bit Rate	Up to 50 Mbps (4:2:2 Profile) Up to 15 Mbps (MP @ ML)
– Audio Bit Rate	Up to 3.1 Mbps per service (2 stereo pair max allowed)

Video

Analog Video Input Formats

Analog Composite Formats	NTSC, NTSC-J, PAL-I, B, G, H, D or PAL-M

Digital Video Input

Formats	SDI (ANSI/SMPTE 259M-1997)
Jitter Tolerance	Within SMPTE RP 184 specifications
Rate	270 Mbps
Sampling	10-bit 4:2:2 component
Connector	75 Ohm BNC

Selected ENC-S11 to DEC-M-11 End-to-End Analog Video Performance

Test Parameter	*Signal*	*Units*	*Value*
Field Time Waveform Distortion	NTC-7 Composite	<%	1
Chrominance-Luminance Gain Inequality	NTC-7 Composite	100 +/-%	2
Luminance Non-linearity	NTC-7 Composite	<%	2
Chrominance Gain Non-linearity	NTC-7 Combination	<%	2
Chrominance Phase Non-linearity	NTC-7 Combination	< Deg	1
Differential Gain	NTC-7 Composite	<%	1
Differential Phase	NTC-7 Composite	< Deg	1.3
Signal-to-Noise Ratio (15kHz-4.2MHz, unified weighting)	Shallow Ramp	dB	54

Audio

Digital Audio Input

Format	AES3-1992, ANSI S4.40-1992, SMPTE 276
Sampling	24, 20 or 16 bits at 48kHz
Connectors	75 Ohm BNC

Analog Audio Input

Impedance	Balanced, 600 Ohm
Input Level	+4 dBu with 20 dBu headroom
Connector	15-pin D subconnector

Physical

Size and Weight

Height	3RU VME
Width	20.32mm/0.8"
Depth	100mm/3.94"
Weight	0.3kg/0.6 lbs.

Electrical

Typical Power Consumption 12W

Part Number	*Description*
HALENCS11-UTIL-M	MPEG-2 Multi-purpose encoder card. 4:2:0, analog audio & video interfaces, one stereo pair, Musicam, no VBI
HALENCS11-UVB-M	MPEG-2 Multi-purpose encoder card. 4:2:0, analog audio & video interfaces, one stereo pair, Musicam, 6-lines VBI
HALENCS11-STD-M	MPEG-2 Standard encoder card. 4:2:0, analog & digital audio & video interfaces, two stereo pair, Musicam, 6-lines VBI
HALENCS11-STD-D	MPEG-2 Standard encoder card. 4:2:0, analog & digital audio & video interfaces, two stereo pair, Dolby AC-3, 6-lines VBI
HALENCS11-PRO-M	MPEG-2 Professional encoder card. 4:2:2 with extended window. Analog & digital interfaces, embedded, two stereo pairs, Musicam or pass-through, special VBI processing
HALENCS11-PRO-D	MPEG-2 Professional encoder card. 4:2:2 with extended window. Analog & digital interfaces, embedded, two stereo pairs, Dolby AC-3 or pass-through, special VBI processing
HALENCS11-PRO-DM	MPEG-2 Professional encoder card. 4:2:2 with extended window. Analog & digital interfaces, embedded, two stereo pairs, Dolby AC-3, Musicam or pass-through, special VBI processing

NetVX™ — NX-ENC-S11

- MPEG-2 4:2:0 or 4:2:2 Profile Video
- SDI and Analog Video Inputs
- Dual Stereo Audio Encoding
- Support for VBI signals



Specifications are subject to change. For a complete listing of the most current specifications, please visit our Website at ***www.broadcast.harris.com****.*

HARRIS

Broadcast Communications Division | 4393 Digital Way | Mason, OH USA 45040
phone: +1 513-459-3400 | www.bjpace.com.cn

Trademarks and tradenames are the property of their respective companies.
Copyright © 2003 Harris Corporation
Printed in USA on Recyclable Paper HMC 15069 HG ADV. 1188 3/03

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP