

## NV30-HDMI-OUT

SD-/HD-/3G-SDI to HDMI Converter with no scaling artifacts and AutoSFP™ functionality

### Data Sheet



#### Description

The NV30-HDMI-OUT is a Small Form Factor Pluggable (SFP) SDI to HDMI converter. The unit is specially designed to convert SD-SDI, HD-SDI and 3G-SDI signals into an HDMI output with no scaling artifacts. It is made with AutoSFP™ enabled functionality to fit the miniHUB product range.

The unit offers embedding of audio. Up to 8 channels of audio is supported and embedded in the HDMI signal.

#### Part Number Options

Part Number	Temperature *)
NV30-HDMI-OUT	-5°C to +55°C
ADAPTER CABLE HDMI/D-HDMI/J	

\*) Rated temperature for the complete miniHUB unit.

#### Absolute Maximum Ratings

Absolute maximum ratings are those values beyond which functional performance is not intended, device reliability is not implied, and damage to the device may occur.

Parameter	Minimum	Maximum	Unit
Storage temperature (non-operating)	-40	+85	°C
Case operating temperature:	-20	+80	°C
Relative Humidity (non-condensing)	5	95	%
Supply voltage (Vcc)	0	3.6	V

#### Features

- AutoSFP™ enabled functionality
- Compliant to:
  - SMPTE-424M
  - SMPTE-292M
  - SMPTE-259M-C compliant
  - SMPTE 425A (Mapping 1)
  - SMPTE 425B (372M Mapping)
- Supported standards:
  - 525/625 (50/ 59.94/60 Hz)
  - 720p/1080i (50/ 59.94/60 Hz)
  - 1080p (23.98/24/25/29.97/30/50/ 59.94/60 Hz)
- Up to 8 channels of audio embedding
- HDMI 1.4 type D connector
- HDMI type D plug with locking mechanism available
- Hot-pluggable
- Pb-free and RoHS compliant

## Recommended Operating Conditions

Parameter	Minimum	Typical	Maximum	Unit
Case operating temperature:	-20		+80	°C
Relative Humidity (non-condensing)	5		90	%
Supply voltage (Vcc)	3.13	3.3	3.46	V

## Electrical Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Power dissipation		1032	1326	mW
Serial Data rate	270	270/1485/2970	2970	Mbps

## HDMI Output Characteristics

Parameter	Minimum	Typical	Maximum	Unit
Number of outputs (# of converters)	1			
Connector type	HDMI 1.4 type D			
TMDS output clock frequency	20		150	MHz
TMDS Output Clock Duty Cycle	48		52	%
TMDS Differential Swing	800	1000	1200	mV
TMDS Rise/Fall Time	75	175		ps
Maximum Output current	55			mA
Output Voltage	4.8	5.05	5.3	V
Output resolution (Full RGB range)			24	bit

Norwia AS  
P.O.Box 14  
3201 Sandefjord  
Norway

Norwia AS  
Kilgata 12  
3217 Sandefjord  
Norway

Contact:  
phone: +47 33 45 20 90  
e-mail: [info@norwia.no](mailto:info@norwia.no)  
web: [norwia.com](http://norwia.com)

