network

VikinX User Manual

SDI0106Q

Serial Digital Video Distributor 1x6 QUAD

network-electronics.com

Rev. 4

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Revision history

Current revision of this document is the uppermost in the table below.

Revision	Replaces	Date	Change description
4	3	2007-10-29	New front page and removed old logo.
3	2	2007-03-29	Added Materials Declaration and EFUP; updated EC Declaration of Conformity.
2	1	23/11/04	Removed reference to discontinued product SDI0106D.
1	0	01/04/04	Updated warranty description, and combined D and Q.
0	-	10/10/00	Initial Revision.

Contents

1 Product overview

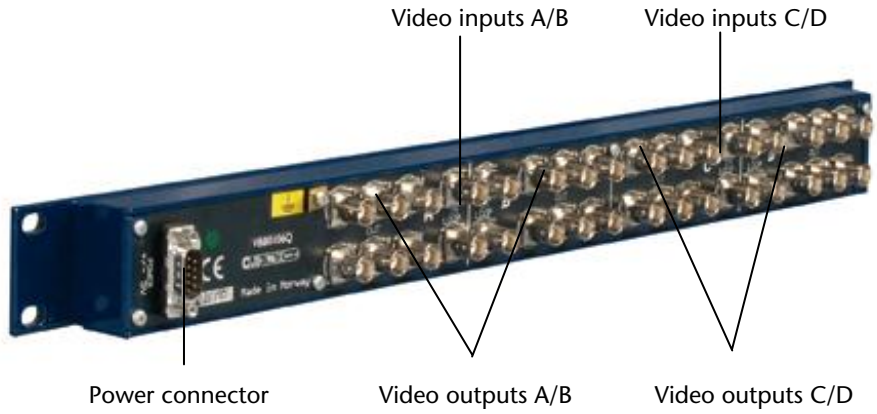
The SDI0106Q provides four separate 1 to 6 serial digital video distribution amplifiers in a single rack space ultra low profile enclosure. Looped inputs allow forming of different configurations. This high performance amplifier in SMD technology allows the digital transparent distribution of D1 and D2 signals. The signal passes the amplifier without any signal processing. The SDI0106Q is designed for all distribution purposes in studio, duplication and broadcast applications.

2 Specifications

2.1 Technical specifications

Data rate:	143Mbps – 270Mbps
Min. signal level:	0.25 nom. 0.8V
Max. Signal level:	4.5V
Number of inputs:	4, looped
Number of outputs:	4x6
Impedance:	75Ohms
Signal processing:	None
Connector:	BNC
AC power:	External power supply 100 – 260 VAC
DC power:	±5V, connector DB9 male
Dimensions:	483 x 44 x 40 mm (19”, 1RU)

2.2 Rear view



2.3 Power connection

Do not connect mains to the desktop power supply before connecting the power supply to the distributor.

Connect the DB9 female connector from the desktop power supply to the main unit. Tighten the screws to assure a proper contact. To connect mains to the desktop power supply you need a mains cord with IEC 320 connector. SDI0106Q is normally delivered with the desktop power model **AC ±5V / 10W**. Upon customer request, SDI0106Q can also be delivered with **DC ±5V / 30W**, which may be fed by a 36 - 72 VDC mains power source. A Frame mounted power supply solution is also available.
Please refer to the latest Network Product Catalogue for power supply types, or call the Network Electronics ASA for this information.

SDI0106Q requires ±5V DC with a minimum current of 300mA. The following pin-out is used on the DB9 male power connector:

Pin #1	0V
Pin #2	+5V
Pin #6	-5V

3 Connections

3.1 Termination of video signals

It is not necessary to terminate unused distribution outputs.

The looped outputs on the input section of the SDI0106Q must always be terminated. A 75 ohms termination plug is used direct on the SDI0106Q. To assure correct signal shape a precision termination plug with 0,1% tolerance must be used.

If the video signal is routed from the looped outputs to other devices, the end of the loop chain have to have an internally terminated device or a termination plug.

General environmental requirements for Network Electronics equipment

1. The equipment will meet the guaranteed performance specification under the following environmental conditions:
   - Operating room temperature range: 0°C to 45°C
   - Operating relative humidity range: < 95% (non-condensing)

2. The equipment will operate without damage under the following environmental conditions:
   - Temperature range: -10°C to 55°C
   - Relative humidity range: < 95% (non-condensing)

Product Warranty

The warranty terms and conditions for the SDI0106Q follow the General Sales Conditions by Network Electronics ASA. These conditions are available on the company web site of Network Electronics ASA:

www.network-electronics.com

Materials Declaration and EFUP

Materials declaration

For product sold into China after 1st March 2007, we comply with the "Administrative Measure on the Control of Pollution by Electronic Information Products". In the first stage of this legislation, content of six hazardous materials has to be declared. The table below shows the required information.

組成名稱 Part Name	Toxic or hazardous substances and elements					
	鉛 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
SDI0106Q	X	O	O	O	O	O
DP AC ±5V, 10W	O	O	O	O	O	O

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.
X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.

Environmentally Friendly Use Period (EFUP)

EFUP is the time the product can be used in normal service life without leaking the hazardous materials. We expect the normal use environment to be in an equipment room at controlled temperature range (0°C - 40°C) with moderate humidity (<90%, non-condensing) and clean air, not subject to vibration or shock.

Where a product contains potentially hazardous materials, this is indicated on the product by the appropriate symbol containing the EFUP. The hazardous material content is limited to lead (Pb) in some solders. This is extremely stable in normal use and the EFUP is taken as 50 years, by comparison with the EFUP given for Digital Exchange/Switching Platform in equipment in Appendix A of "General Rule of Environment-Friendly Use Period of Electronic Information Products". This is indicated by the product marking:

It is assumed that while the product is in normal use, any batteries associated with real-time clocks or battery-backed RAM will be replaced at the regular intervals.

The EFUP relates only to the environmental impact of the product in normal use, it does not imply that the product will continue to be supported for 50 years.

Recycling information

Network Electronics ASA provides assistance to customers and recyclers through our web site http://www.network-electronics.com. Please contact Network Electronics ASA's Customer Support for assistance with recycling if this site does not show the information you require.
Where it is not possible to return the product to Network Electronics ASA or its agents for recycling, the following general information may be of assistance:

- Before attempting disassembly, ensure the product is completely disconnected from power and signal connections.
- All major parts are marked or labelled to show their material content.
- Depending on the date of manufacture, this product may contain lead in solder.
- Some circuit boards may contain battery-backed memory devices.

EC Declaration of Conformity

MANUFACTURER	Network Electronics ASA P.B. 1020, N-3204 SANDEFJORD, Norway	
AUTHORISED REPRESENTATIVE (Established within the EEA)	Not applicable	
MODEL NUMBER(S)	SDI0106Q	
DESCRIPTION	Serial Digital Video Distributor – 1x6 QUAD	
DIRECTIVES this equipment complies with	LVD 73/23/EEC EMC 89/336/EEC	
HARMONISED STANDARDS applied in order to verify compliance with Directive(s)	EN 55103-1:1996 EN 55103-2:1996 EN 60950-1:2006	
TEST REPORTS ISSUED BY	**Notified/Competent Body**	**Report no:**
	Nemko	199922157017
TECHNICAL CONSTRUCTION FILE NO	Not applicable	
YEAR WHICH THE CE-MARK WAS AFFIXED	1999	
TEST AUTHORIZED SIGNATORY		
MANUFACTURER	**AUTHORISED REPRESENTATIVE (Established within EEA)**	**Date of Issue**
		2007-03-27
NETWORK ELECTRONICS ASA Org.nr. 976 584 201 MVA	Not applicable	**Place of Issue** Sandefjord, Norway
Name Nils B. Sannes		
Position Quality Manager (authorised signature)		