



**SDI0106Q**

**SERIAL DIGITAL VIDEO DISTRIBUTOR - 1X6 QUAD**

**Product Manual**

**Rev. 2**

**Network Electronics ASA**

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**Revision history**

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

Revision	Replaces	Date	Change description
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.

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## 1 Product overview

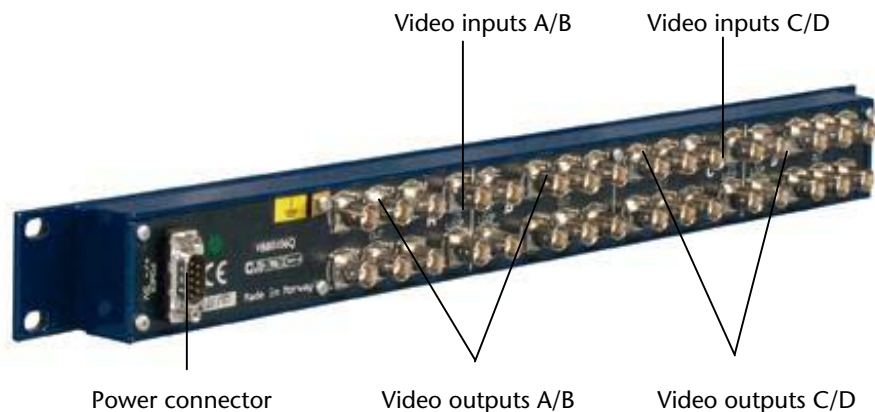
The SDI0106Q provides four separate 1 to 6 serial digital video distribution amplifiers in a single rack space ultra low profile enclosure. Looped inputs allow forming of different configurations. This high performance amplifier in SMD technology allows the digital transparent distribution of D1 and 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  $\pm 5V$  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)
  
3. Electromagnetic compatibility conditions:
  - Emissions: EN 55103-1 (Directive 89/336/EEC)
  - Immunity: EN 55103-2 (Directive 89/336/EEC)
  - Electrical safety: EN 60 950

With reference to the declaration of conformity provided with the external power supply.



## Certificate of Conformity

Network Electronics ASA N-3204 Sandefjord Norway	Company Registration Number: NO 976 584 201 MVA
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Declares under sole responsibility that the product:

Product Name:	SDI0106Q
Product Description:	Serial Digital Video Distributor - 1x6 Quad

To which this declaration relates are of Norwegian origin and are in conformity with the following standards:

EN 55103-1: 1996	Generic Emissions Standard
EN 55103-2: 1996	Generic Immunity Standard
IEC 60950, 2nd Ed, 1991 + Amd. 1, 1992 + Amd. 2, 1993 + Amd. 3, 1995 + Amd. 4, 1996	Safety Standard

## 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](http://www.network-electronics.com)