

NVD110DBM

Minitype 8-bit Digital 1-ch Video with 1-ch bidirectional Data



Features

Video

- ▶ NTSC or PAL video standards supported
- ▶ Non-compressed 8-bit digitally encoded video
- ▶ No video degradation over the maximum operating distance

Data

- ▶ Meets EIA RS-232/422/485 specifications
- ▶ Full RS-485 Tri-state support
- ▶ Half or full-duplex operation
- ▶ Transparent to data encoding
- ▶ Data rates from 0 to 115.2kbps

Optical

- ▶ One fiber design
- ▶ High performance laser-based optics
- ▶ Multimode or Singlemode
- ▶ ST or FC connectors available

Robust Design

- ▶ Plug-and-Play design, no in-field adjustments required.
- ▶ Minitype for Wall-mount installation
- ▶ Wide operating temperature range of -40°C to +75°C
- ▶ Designed for use in harsh environments

Local Diagnostics

- ▶ Service-friendly LED status indicators on both front and rear of the module

Warranty

- ▶ Comprehensive Lifetime Warranty

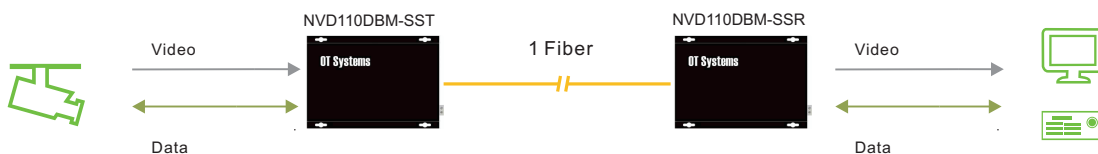
Description

The NVD110DBM, NeTrans' 8-Bit Digital Video and Data Modules, features high-performance laser-based optics for the clearest, most reliable data transmission over one fiber for both single and multi-mode with no video degradation over the entire operating distance (up to 20km), as well as RS-232/422/485 serial data ports.

This plug-and-play product provides instant product compatibility for most major security manufacturers' equipment and reliability in harsh environments, a perfect compliment to any commercial, government or intelligent transportation application. This small, but mighty, design also comes ready for wall-mounted applications.

These units are compatible with the NVD110DB transmitters/receivers and NVD110DB-XXR3 receivers.

Typical Application



Specifications

Video

Number of Channels	1
Format	NTSC/PAL
Input/Output	1 Volt pk-pk (75 ohms)
Bandwidth	6MHz
Differential Gain	<2%
Differential Phase	<1 Degree Typical
SNR-CCIR weighted	>53dB

Data

Number of Channels	1
Data Direction	Bi-directional Duplex
Data Interface	RS232, RS422, RS485 2 or 4-wire Tri-state
Selection Method	DIP switch-selectable
Data Rate	0~115,200bps
Data Protocol	Protocol transparency
Line Carrier Detection	RS485 (2/4-wire) Tri-state output

LED

Video Signal Indication (Presence/Absence)	Green/Red LED lit
Data TX / RX Status	Green/Red LED lit
Power	Green / On

Connectors

Video Input / Output	BNC
Optical Input / Output	ST (standard), FC (optional)
Data Input / Output	7-pin screw terminal
Power	2-pin screw terminal

Electrical and Mechanical

Power	12VDC @500mA
Dimensions(WxHxD)	107x 70 x 38mm(Max)
Shipping Weight	0.2kg

Environmental

Operating Temp	-40 °C to +75 °C
Storage Temp	-40 °C to +85 °C
Relative Humidity	0 to 95% non-condensing
MTBF	> 100,000 hours

Ordering Information

Fiber Type	Part Number	Description	Wavelengths	Optical Power Budget	Max. Distance (Km)
Multi-mode (62.5/125µm)	NVD110DBM-SMT	Minitype 1 - ch Video Transmitter with 1-ch bidirectional Data Transceiver	1310 1550nm	12dB	4
	NVD110DBM-SMR	Minitype 1 - ch Video Receiver with 1-ch bidirectional Data Transceiver			
Single-mode (9/125µm)	NVD110DBM-SST	Minitype 1 - ch Video Transmitter with 1-ch bidirectional Data Transceiver	1310 1550nm	18dB	20
	NVD110DBM-SSR	Minitype 1 - ch Video Receiver with 1-ch bidirectional Data Transceiver			

- Options
- ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMT.
 - Please feel free to consult factory if longer transmission distance is required.
- Power Adaptor
- Power adaptor is included.

- Notes:
- Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.
 - Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
 - Power adaptor is manufactured by third party and is supplied with fitted screw - terminal output cables.
 - Please feel free to consult factory for any special requirement and customization.



All Digital Fiber Optic Manufacturing Specialist

OT Systems Ltd., June 2012

Due to continuous improvement, all product specifications are subject to change without further notice.