

NV110CB / NV210CB / NV410CB / NV810CB

10-bit Digital 1/2/4/8-ch Video with 1-ch bidirectional Contact Closure



Features

Video

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

Contact Closure

- ▶ Bi-directional contact closure
- ▶ 2ms response time
- ▶ Normally open
- ▶ Relay contact rating of 110VDC/30W; 125VAC/62.5VA max.

Optical

- ▶ One fiber design
- ▶ High performance laser-based optics
- ▶ Multimode or Singlemode
- ▶ Internal SFP optical module
- ▶ ST, FC or SC connectors available

Robust Design

- ▶ Plug-and-Play design, no in-field adjustments required.
- ▶ 2-in-1 modular design for standalone or rack-mount installation
- ▶ Hot-swappable design
- ▶ Wide operating temperature range of -40°C to +75°C
- ▶ Designed for use in harsh environments

Local and remote diagnostics

- ▶ Service-friendly LED status indicators on both front and rear of the module
- ▶ Remote health and status monitoring via Intelligent Rack System Diagnostics and Monitoring (SDM) Module

Warranty

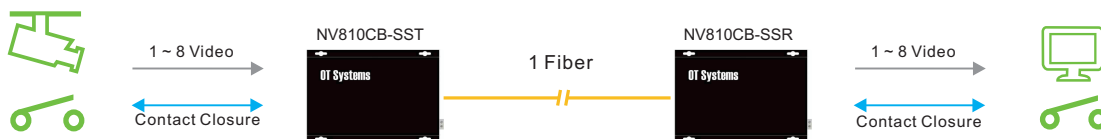
- ▶ Comprehensive Lifetime Warranty

Description

The NV110CB/NV210CB/NV410CB/NV810CB NeTrans' 10-Bit Digital Video and Contact Closure transmission products, support fiber optical transmission of 10-Bit PCM coded video (up to 8 channels) with one bi-directional contact closure and features high-performance laser-based optics for the clearest, most reliable data transmission. The video and contact closure series products support fiber optic transmission of 10-Bit PCM coded video and bi-directional contact closure in both single and multi-mode with no video degradation over the entire operating distance (up to 20 km).

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. The product features a universal design offering two great features: a variety of optical and connector options for field-configure-readiness; and a modular construction equipped for both rack-mount and stand-alone applications. The NeTrans Intelligent Rack design comes standard and offers remote network diagnostics to maintain and manage system health and hot-swappability.

Typical Application



Specifications

Video

Number of Channels	1 / 2 / 4 / 8
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

Contact Closure

Number of Channels	1
Direction	Bi-directional Duplex
Input Type	TTL Logic (positive) / Dry Contact
Output Type	Default: Logic Low/ Normally Open
Dry Contact Output Rating	110 VDC/30W, 125VAC/62.5VA max.
Contact Output Response Time	2 mSec.

LED

Video Signal Indication (Presence/Absence)	Green/Red LED lit
Contact Closure Input / Output	LEDs (Green lit/OFF)
Power	Green/On

Connectors

Video Input / Output	BNC
Optical Input / Output	ST (standard), FC or SC (optional)
Contact Closure Input / Output	5-pin screw terminals
Power (Standalone)	2-pin screw terminals
Power (Rack-Mount)	30-pin smart bus connector

Electrical and Mechanical

NV110CB, NV210CB	
Power	12VDC @500mA Max.
Dimensions(WxHxD)	158.4 x 25.4 x 231.8mm(Max)
Shipping Weight	0.55kg
NV410CB, NV810CB	
Power	12VDC @500mA Max.
Dimensions(WxHxD)	158.4 x 50.8 x 231.8mm(Max)
Shipping Weight	0.80kg

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)	No. of slots
Multi-mode (62.5/125µm)	NV110CB-SMT NV110CB-SMR	1- ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550nm	12dB	4	1
	NV210CB-SMT NV210CB-SMR	2- ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550nm	10dB	3	1
	NV410CB-SMT NV410CB-SMR	4- ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550nm	8dB	2	2
	NV810CB-SMT NV810CB-SMR	8- ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550nm	6dB	1	2
Single-mode (9/125µm)	NV110CB-SST NV110CB-SSR	1- ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550nm	14db	20	1
	NV210CB-SST NV210CB-SSR	2- ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1310 1550nm	14db	20	1
	NV410CB-SST NV410CB-SSR	4- ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1550 1310nm	14db	20	2
	NV810CB-SST NV810CB-SSR	8- ch Video Transmitter / Receiver with 1-ch bidirectional Contact Closure Transceiver	1550 1310nm	14db	20	2

Options	<ul style="list-style-type: none"> ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMT. For SC type, specify "C" in the suffix. E.g. CMT. Please feel free to consult factory if longer transmission distance is required.
Power Adaptor	<ul style="list-style-type: none"> Power adaptor (GS40A12) is to be purchased separately. Please refer to accessories section for the details.
Rack Mount Chassis	<ul style="list-style-type: none"> Intelligent Rack Mount Chassis (NR-C14) is to be purchased separately. Please refer to accessories section for the details.

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.



OT Systems Ltd., June 2012
Due to continuous improvement, all product specifications are subject to change without further notice.

Video Transmission