

San Telequip (P) Ltd.,  
 504/505 Deron Heights, Baner Road, Baner  
 Pune 411045, Mah, India  
 Phone : +91-20-27293455, 9764027070, 8390069393  
 email : info@santelequip.com



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## One Channel Digital Video Optical Transmitter & Receiver, SC09VFN 1

### Overview



SCV09VFN series video Digital Optical Converter adopt the advanced international digital video and optical fiber transmission technology, and implement the transmission of real-time & synchronization, no-distortion and high quality video effect. The play-and-plug design makes the installation more convenient and easier.

### Features

- 10-bit digital code and non-compression type video transmission
- Support any high-resolution video signal
- 5Hz-10MHz video channel
- Automatic compatible PAL, NTSC and SECAM video system
- With APC circuit, constant input optical power, and large dynamic range
- Advanced self-adapting technology

### Technical Specifications

#### Video

Video interface number	1 channel video
Bandwidth of video	8MHz
Video input & output impedance	75 $\Omega$ (imbalance), BNC
Video input & output voltage	1Vpp
Differential gain	DG <1% (typical value)
Differential phase	DP <0.6° (typical value)
Weighted signal-to-noise ratio	S/N $\geq$ 67dB (Weighted)

#### Data

Physical interface	Screw type terminals
Interface Signal	RS485/RS422/RS232
Baud Rate	0-400Kbps
BER	< 10 <sup>-9</sup>

#### Audio

Interface port	Industrial standard port
Audio input/output impedance	600 $\Omega$ (balance/imbalance)
Audio input/output voltage	2Vpp (typical value)
Audio input/output level	0 dbm (typical value)
Audio bandwidth	10Hz to 20kHz
Audio digital bandwidth	24 bit
Audio signal-to-noise ratio	S/N $\geq$ 95Db (weighted)

#### Ethernet

Physical interface	RJ45
Operating mode	Full duplex / half duplex
Operating mode	Full duplex/ full-duplex
Support agreement	IEEE802.3, 10M, 10/100M Auto

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### Phone

Physical interface	RJ11
Voice bandwidth	8kHz
Special function	Support the call display, With hands-free function
Working mode	Point to point link, SPC Exchanges method

### Fiber

Connector	FC
Fiber type	Single-mode fiber, Single fiber
Transmission distance	Single mode 20Km

### LED Indications

POWER, FIBER, LED (VIDEO)

### Environmental

Operating temperature	-30°C to +75°C
Storage environment	-40°C to +85°C
Relative humidity	0-95% (non condensation)
Power supply voltage	AC220V, 50Hz, External Adapter
Dimensions	10.8*10.6*2.7 (cm)

### Ordering Information

#### Model Selection: SC09VFN 1 S T AC DA A E

SC09VFN : Basic Product Code  
1 : 1 Channel Video Port  
M / S : M: Multimode, S: Singlemode  
T/R : T: Transmitter, R: Receiver  
AC : External Adapter  
DA/DB : Data Port – DA: Unidirectional, DB: Bi Directional  
A : Audio Port  
E : Ethernet Port  
H : Fixed.

### Application Diagram

