

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 PCB, SC09VFNR PCB

### Overview

SCV09VFNR PCB is Video Digital Optical Converter PCB sliding inside the Rack. It 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
- Support no-damage regenerative trunk of video
- Advanced self-adapting technology, and it is unnecessary to implement the adjustment of spot electrics or optics when using
- Industry-grade design and modularization design make the equipment reliable and flexible

### 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)

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#### Ethernet

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

#### 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% ( no condensation)
Power supply voltage	From Inside the Rack

#### Ordering Information

<b>Model Selection</b>	<b>: SC09VFNR 1 S DA PCB A E</b>
SC09VFNR	: Basic Product Code
1	: 1 Channel Video Port
M / S	: M: Multimode, S: Singlemode
DA/DB	: Data Port – DA: Unidirectional, DB: Bi Directional
PCB	: PCB for Rack
A	: Audio Port
E	: Ethernet Port