



S.G. INTERNATIONAL GROUP H.K. LIMITED SHENZHEN SHUGUANG ELECTRONICS CO., LTD

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➤ Video Transmission Series



Point-to-Point 1-16-Channel Duplexing Video Transmission Series

- ◆ Supports point-to-point connection
- ◆ Unpressed and undistorted digital broadcasting transmission
- ◆ Free from intermodulation interference from optical transceivers for simulated frequency, phase, and amplitude modulations
- ◆ Supports any high-resolution video signals
- ◆ Supports video nondestructive regenerated relay
- ◆ Auto compatible with PAL, NTSC, SECAM video systems
- ◆ Supports video, data, Ethernet, telephone voice parallel transmission
- ◆ KM optical transmission technology, large in capacity and easy for upgrade
- ◆ WDM/CWDM/DWDM optical techniques
- ◆ Transmission in monomode and multimode fiber, at a distance of 0 - 100KM
- ◆ Special ASIC design and high-speed DSP technology
- ◆ Advanced auto-negotiation technology, no need for adjustment during use
- ◆ Full SMT technology
- ◆ Industry standard design, with high reliability
- ◆ Wall hanging type, 1U rack type, 4U card type
- ◆ Supports user customization and OEM service

Technical Specification

- ◆ Video Interface (1-16-Channel Duplexing Video)
- Video I/O Impedance BNC 75Ω non-balanced interface
- Video I/O Voltage Typical Peak – Peak Value 1Vpp, Max. 1.5 Vpp
- Video Bandwidth 8MHZ
- Video Digital Bid Width 8/10 bits
- Differential Gain <1%
- Differentia Phase <1°
- Field Tilt <0.5%
- SNR 67dB



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➤ Video Transmission Series

◆ Audio Interface (1~32-Channel Simplexing/Duplexing Audio)

Physical Interface Industry standard connector terminal or Cannon
 Audio I/O Impedance 600Ω or other various impedances
 Audio I/O Electric Level Typical 0dBm
 Frequency Response 10HZ-20KHZ
 Audio Digital Bit Width 24 bit
 SNR 85dB

◆ Data Interface (Supports 1-32 Channels of Asynchronous RS-232/485/422 Data Transmission)

Physical Interface DB9, DB25/F, Industry standard connector terminal or RJ45 connector jack
 RS-232 Rate DC-115.2Kbps
 RS-422/485 Rate DC-1.2Mbps
 RS-422/485 Distance 0 – 1200M
 RS-422/485 Protocol Transparently supports random RS-485/422 protocol
 I/O Switching Value, Warning Data, and supports controlled relay output

◆ Ethernet Interface

Physical Interface Shielded Super-type 5 RJ-45 Connector Jack
 Protocols Supported IEEE 802.3 10M, 100M, and 10/100M auto-negotiation Ethernet
 Operating Mode Full/Half Duplexing

◆ Telephone Interface (Multiple Channels)

Physical Interface RJ-11 Connector Jack
 Voice Bandwidth 8KHZ
 Operating Mode Point-to-point hotline, program controlled switch/extension mode

◆ Optical Interface

Physical Interface FC/PC, ST/PC, and SC/PC
 Type of Fiber Monomode/Multimode Fiber, Single /Double Fiber
 Transmission Distance Multimode: 0-3km; Monomode: 0-25km, 0-60km, and 0-100km

◆ Environment

Operating Temperature -45°C ~ 85°C
 Humidity 0~95% non-condensing
 Input Voltage AC/DC 220V, DC-48V, +24V, +12V, and +5V optional

- ◆ SGA100S(M)T/R 1-16-Channle Duplexing Video
- ◆ SGA110S(M)T/R 1-16-Channel Duplexing Video + Data
- ◆ SGA120S(M)T/R 1-16-Channel Duplexing Video + Audio + Data
- ◆ SGA130S(M)T/R 1-16-Channel Video + Telephone + Data
- ◆ SGA140S(M)T/R 1-16-Channel Duplexing Video + Ethernet + Data
- ◆ SGA150S(M)T/R 1-16-Channel Duplexing Video + Telephone + Ethernet +