



Type: Sepitam-2V5bD2P-T/R



Overview :

This series of products is a point-to-point multi service optical transmission equipment developed on the basis of the special VLSI developed by the company. This product provides 2channel video, 2 channel telephone interface, 4 channel rs232+1RS422 interface, which is transmitted through one optical fiber, the internal circuit of the equipment adopts full digital circuit, which is reliable, stable, low power consumption, high integration, small size and easy to use Installation and maintenance.

Features :

- ◆ Integrated circuit based on independent intellectual property rights, the total bandwidth of optical fiber line is 1.5g;
- ◆ No relay transmission distance of optical port can be up to 2-120 km;
- ◆ The video interface supports PAL / NTSC / SECAM full system compatibility and broadcast level transmission quality;
- ◆ 2 channel voice access, supporting call display function / reverse polarity billing / fax function; voice port supports FXO / FXS / two four wire EM / two four wire audio / magnet telephone interface, FXO port is connected with program-controlled exchange, FXS port is connected with the user's telephone;
- ◆ 4ch RS232 +1ch RS422 serial interfaces can be connected;
- ◆ All kinds of interface lightning protection meet iec61000-4-5 (10 / 700 μ s) differential mode: 6kV impedance (40 Ω); common mode: 6kV, impedance (40 Ω) standard;
- ◆ A variety of power modes are available: AC220V, dc-48v / DC24V, etc.; it supports AC + DC, AC + AC, DC + DC and other dual power modes;



Parameters :

♦ Fiber

Optical port: 1

Optical port rate: 1.25G

Optical fiber: single fiber and double fiber

Fiber Interface: FC/SC/ST/LC (SFP)

Wavelength: 850nm/1310nm multimode; 1310nm/1550nm single mode

No relay transmission distance: 20~120Km

Typical transmit power:

Single mode 1310/1550nm: $\geq -9\text{dBm}$

Multimode 850nm: -18dBm

Multimode 1310nm: -25dBm

Acceptable sensitivity range: $-28\text{dBm} \sim -40\text{dBm}$

♦ Video interface

Video bandwidth: 5hz-10mhz

Signal level: 1Vp-p (typical value)

Sampling frequency: 16.4m

Signal impedance: $75\ \Omega$

Physical interface: BNC (pal, NTSC, SECAM compatible)

Differential gain (DG): $< 1.3\%$ (typ.)

Differential phase (DP): $< 1.3\%$ (typical value)

SNR: $> 63\text{dB}$ (weighted)

♦ 10/100/1000M Ethernet

Protocol: IEEE 802.3 compliant, IEEE 802.1Q (VLAN)

Rate: 10/100M adaptive, full/half duplex fully adaptive

MAC address table: Can learn 4096 MAC addresses

Physical interface: RJ45 seat, support Auto-MDIX

(cross/straight line adaptive)

**♦ FXS**

Ringing voltage: 75V

Ringing frequency: 25Hz

Two-wire input impedance: 600Ω (off-hook)

Return loss: 20dB

♦ FXO

Ring detection voltage: 35V

Ringing detection frequency: 17Hz-60Hz

Two-wire input impedance: 600Ω (off-hook)

Return loss: 20 Db

♦ Serial interface

Stander:

EIA/TIA-232 RS-232 (ITU-T V.28)

EIA/TIA-422 RS-422 (ITU-T V.11)

interface:

RS-422: TxD+ TxD- RxD+ RxD-

RS-232: RXD TXD Signal Ground

♦ Electrical and mechanical properties

System power supply: ac180v ~ 260V; DC – 48V; DC + 24V

(dual power redundant backup is supported)

Power consumption: ≤ 10W Appearance structure: 485 (L) X200 (W) x45 (H) mm 19 inch 1U rack type

Weight: 3.8kg/set

♦ Working environment

Working temperature: -10 ° C - +60 ° C

Storage temperature: -40 ° C - +85 ° C

Working humidity: 0% - 95% (no condensation)

MTBF: >100,000 hour



Product number	Sepitam-2V5bD2P-T/R
Product function description	Transfer 2ch video, 2ch voice interface; 4chRS232+1ch422interface on fiber
Interface	2ch video, 2ch voice interface; 4chRS232+1ch422 interface; 1 fiber port
Power supply	AC220V / DC-48V / DC+24V (optional)
size	(L×W×H) 485*140*45mm 19 inch 1U type
weight	3.8Kg/piece



Technical Specification of Sepitam-2V5bD2P-T/R

شرکت سپیتام



www.Sepitam.com