

APPLICATIONS

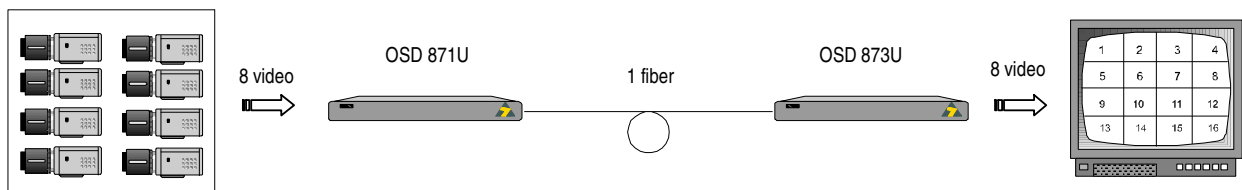
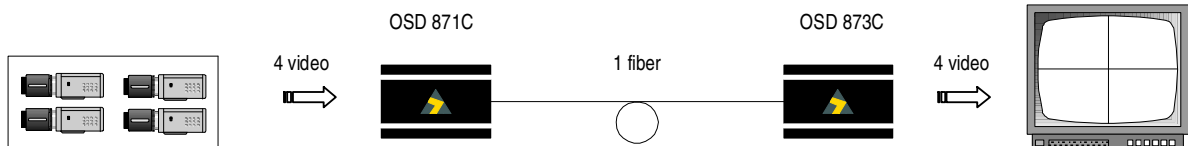
- ▲ CCTV networks
- ▲ Transportation networks
- ▲ Industrial monitoring systems

FEATURES AND BENEFITS

- ▲ Uncompressed 10 bit video encoding, giving studio quality transmission
- ▲ Fiber optic transmission of four PAL, NTSC or SECAM video signals on one fiber, eight channels available with optional wavelength division multiplexing (WDM)
- ▲ Range of up to 200km is possible with optional optical devices
- ▲ Video bandwidth in excess of 10MHz, SNR >67dB
- ▲ Immunity to electrical interference, with complete end-to-end isolation
- ▲ Video inputs have 3dB overload capability and can be equalised for up to 300m of coaxial cable.



TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

Contact OSD for a full listing of available options

OSD871/13-7 Transmitter with -7dBm 1310nm FP laser
 OSD871/13+2 Transmitter with +2dBm 1310nm FP laser
 OSD871/15-7 Transmitter with -7dBm 1550nm DFB laser
 OSD871/15+2 Transmitter with +2dBm 1550nm DFB laser
 OSD871/15+6 Transmitter with +6dBm 1550nm DFB laser

OSD873 Receiver
 OSD873A APD Receiver
 Option C Module Version
 Option U 1RU Version



SPECIFICATIONS

CHANNEL AVAILABILITY

Number of video channels 4 one way, 8 optional with WDM

ELECTRICAL

Input/Output Impedance 75Ω composite video
Input/Output Level 1.0Vpp nominal
Bandwidth 5Hz to 10.0MHz ± 1dB
Weighted Signal to Noise Ratio >67dB over the full dynamic range of the receiver
Differential Gain <0.5%
Differential Phase <0.5°
Video Connector BNC

Alarms Laser Fail on OSD871
Low Received Optical Power on OSD873
Alarm Connector Female 9-pin D connector

Controls Coaxial cable equalisation for each channel on OSD871
None on OSD873

OPTICAL

Transmitter Wavelength 1310nm or 1550nm
Transmitter Coupled Power several options are available between -7 to +6dBm
Receiver Sensitivity <-24dBm (PIN)
<-34dBm (APD)

Receiver Saturation >0dBm (PIN)
>-5dBm (APD)

Link Budget From 17dB to 40dB at 1310nm or 1550nm
Operating Distance From 30km to over 200km, depending on optical devices used
Optical Connectors ST standard, FC is optional
Optical Line Rate 1.35Gbps

PHYSICAL

Power Requirements +9V to 35V DC or 22V to 28V AC @ 10VA for card or module
90 to 265 VAC @ 15VA for 1RU case version

Dimensions (mm) 25W x 208D x 100H card
104W x 104D x 25H (module)
483W x 210D x 44H (1RU case)

Weight 0.4kg (card)
1.0kg (module)
2.2kg (1RU case)

Operating Temperature -20 to +75°C
Relative Humidity 0 to 95% non-condensing

Chassis Current Consumption 0.80 Amp