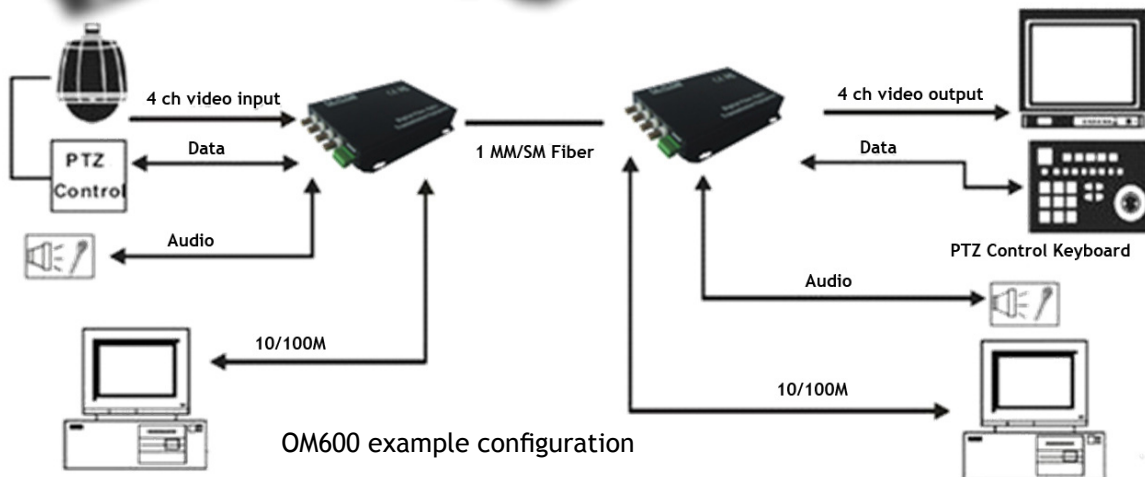
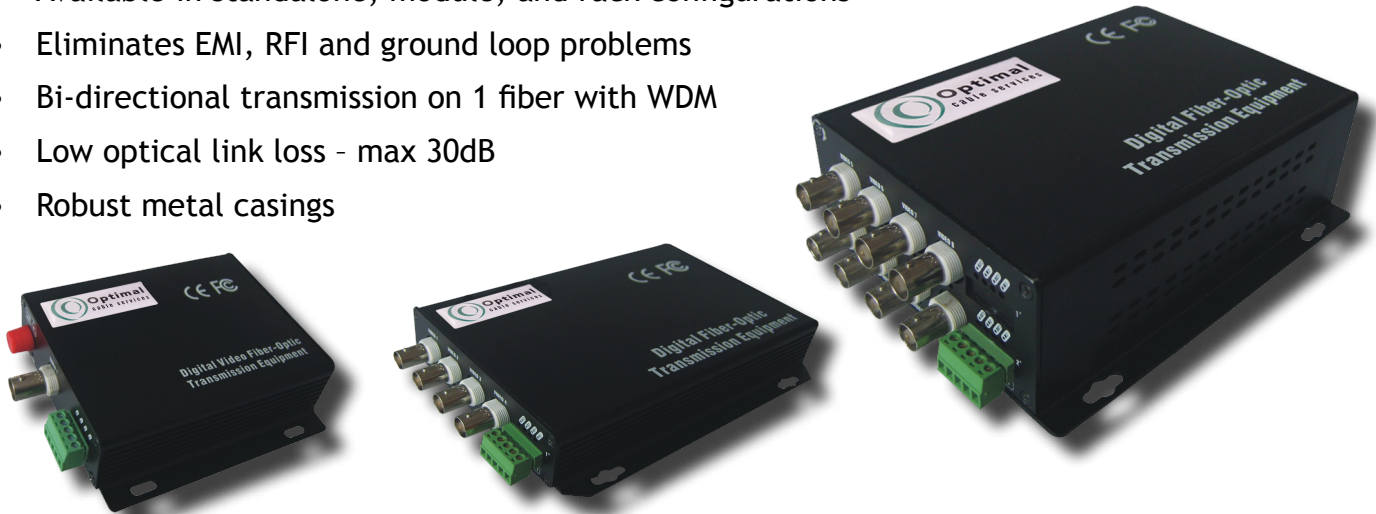


### Application

The OM600 series of digital video optical transmitters and receivers (video converters) transmit high fidelity signals of video, audio, data, telephone, etc. using advanced technology enabling efficient transmission with minimum disturbance.

### Features

- Available in standalone, module, and rack configurations
- Eliminates EMI, RFI and ground loop problems
- Bi-directional transmission on 1 fiber with WDM
- Low optical link loss - max 30dB
- Robust metal casings



### Ordering Details

Example OM610-4V↑1D↑WT/R - Standalone, 4ch forward video, 1ch bi-di data, SM, WDM, 1310/1550nm

OM600	OM600-Video Optical Transmitter / Receiver, 610-desk-top standalone, 620-module card
1, 2, 3...	The number of required channels
V	Video Signals
A	Audio signals
D	Data signals
K	Contact closure signals
E	Ethernet signals
P	Telephone signals
M, W	M-Multi-mode WDM 1310nm/1550nm, W- Single mode WDM 1310nm/1550nm
S, U	S-1310nm, U-1550nm
T, R	T -Transmitter, R-Receiver
↑, ↓, ↑↓	↑ - forward (from TX to RX), ↓ - reverse (from RX to TX), ↑↓ - bidirectional

#### Optimal Cable Services Pty. Ltd.

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### Specifications

#### Optical

	1 Channel	4 Channel	8 Channel
Wavelength	1310nm & 1470nm-1610nm		
Output Power	-8-3dBm		
Optic fiber	multimode (5KM), single mode (20/40/60/80KM)	multimode (1KM), single mode (20/40/60/80KM)	
Receiving sensitivity	-30dBm		
Interface	FC (other options: ST, SC)		

#### Video

	1, 4 & 8 Channel
Channel Quantity	1, 4 & 8
Compatible Systems	NTSC/PAL/SECAM
Impedance/Voltage	BNC 75Ω (unbalanced) / 2.0Vp-p
Differential Gain	< ±1%
Differential Phase	< ±1
S/N ratio	>60dB(weighting)(8 bit), >70dB(weighting)(10 bit)
Interface	BNC

#### Data

	1, 4 & 8 Channel
Channel Quantity	1 bidirectional
Data protocol	RS232, RS422, RS485, Manchester, BIPHASE data
Bandwidth	0-300kbps
Error rate	10 <sup>-9</sup>
Interface	Phoenix terminal

### Power & Dimensions

	1 Channel	4 Channel	8 Channel
Operating voltage	DC 5V2A	DC 5V2A or DC 12V2A	DC 5V2A or DC 12V2A
Operating temperature	-35°C to +70°C		
Humidity	0-95% non-condensing		
Dimension-standalone	120(L) x 105(W) x 28 (H) mm	179(L) x 128.5(W) x 28.5(H) mm	179(L) x 130.5(W) x 50(H) mm
Weight	0.2kg/piece (Net Weight), 1 kg/pair (Gross Weight)	0.4kg/piece (Net Weight), 1.26 kg/pair (Gross Weight)	0.66kg/piece (Net Weight), 1kg/piece(Gross Weight)

### Optional Functions

#### Telephone

	1, 4 & 8 Channel
Phonetic bandwidth	8KHz
Work mode	Point to point hot line, program controlling switch/extension mode
Distortion	<1%
S/N ratio	>95dB
Interface	RJ11

#### Audio

	1, 4 & 8 Channel
Impedance / Voltage	600ohm(unbalanced) / 2.0Vp-p
Frequency Response	10-20kHz
Total Harmonic Distortion	<0.05%
Differential Phase	< ±1
S/N ratio	>95dB(weighting)
Interface	Phoenix terminal

#### Ethernet

	1, 4 & 8 Channel
Work mode	Full duplex / half duplex, autosensing
Network speed	10/100Mbps, autosensing
Interface	RJ45

#### Contact Closure

	1, 4 & 8 Channel
Signal input	Alarm, Binary input, support TTL, RS-232/422/485 or passive switch button
Signal output	Arbitrary alarm, Binary output, support TTL, RS-232/422/485 or relay output
Interface	Phoenix terminal

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