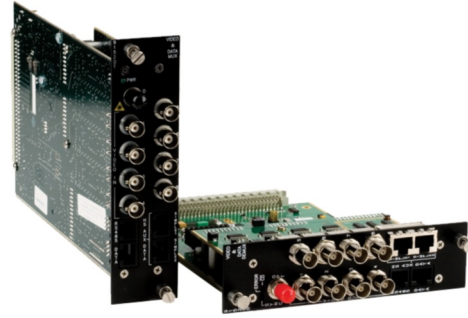


## Features

- 8-channel video and data transmitters and receivers
- Uncompressed 10-bit digital video
- Very high quality video  $\geq 67$ dBw SNR
- 3 data channels, one user-configurable
- 2 simplex High-Speed audio/data expansion ports
- Rack-mount version
- Network Management System (NMS) compatible



## 9752D Series

### Eight-channel video with five simplex data channels

#### Description

The Optelecom® 9752D video/data transceivers use one optical fiber for simultaneous transmission of eight unidirectional camera signals, three simplex data signals and two simplex high-speed data signals. The use of 10-bit video sampling provides extremely high video quality over long distances.

#### Data channels

The RS-232, user-configurable RS-422/RS-485 Manchester 2-wire, and RS-485 2-wire ports add capability to this basic four-channel transport card. Two simplex high-speed data expansion channels are available to support additional simplex audio, data and contact closures.

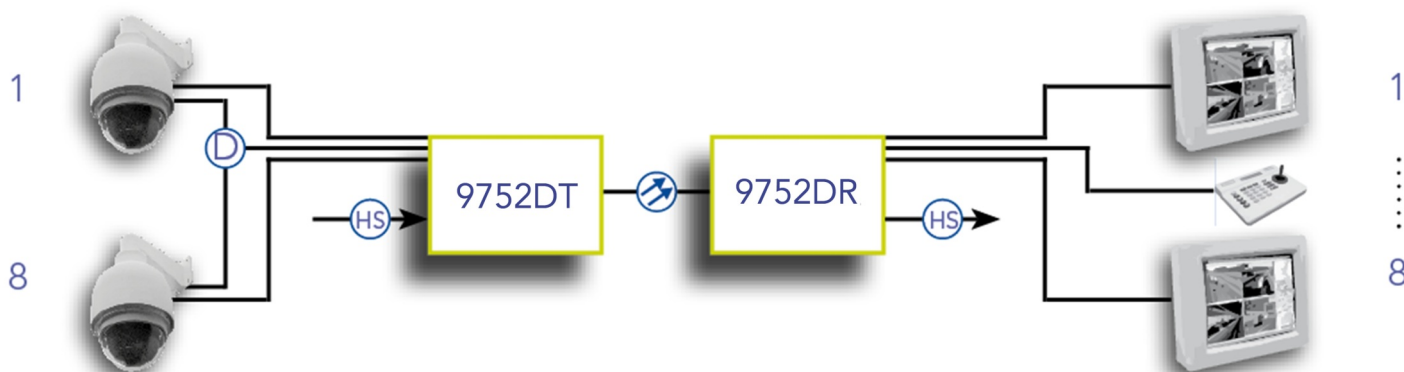
The wide operating temperature range of these units makes the 9752D series well-suited for environmentally harsh applications such as traffic monitoring, video surveillance in city centers, and federal and critical infrastructures.

The 9752D series comes as a rack-mount version, suitable for a 9002 or 9008 power supply cabinet, or as a standalone unit. The 9752D series modules are managed with the Optelecom® Network Management System (NMS).

To create a standalone version of the 9752D rack-mount card, use the 9003-2 mini chassis.

# Technical Specifications

## 9752D Series



### Video

|                       |                    |
|-----------------------|--------------------|
| Number of channels    | 8                  |
| Video format          | NTSC, PAL          |
| Input/output level    | 1Vpp ( $\pm 3$ dB) |
| Bandwidth             | 6MHz (-3dB)        |
| Sampling resolution   | 10-bit             |
| Video sampling rate   | 56MHz              |
| Differential gain     | <2%                |
| Differential phase    | <1°                |
| Signal-to-noise ratio | $\geq 67$ dBw      |
| Connector type        | ST                 |
| Group delay           | <7ns               |

### Data

|                                |  |
|--------------------------------|--|
| Number of channels             | 3 (simplex, in the video direction)  |
| Data port                      |  |
| Connector type                 | RJ-45  |
| Data type (Bit/ sampling rate) | 1-channel RS-232 (DC-115.2kbps/1.5MHz)<br>1-channel RS-422, RS-485-2W, RS-485-4W, Manchester, switch selectable (DC-256Kbps/ 3MHz) |
| RS-485 port                    |  |
| Connector type                 | RJ-12  |
| Data type                      | 1-channel RS-485-2W (DC to 256kbit/s/ 3MHz)  |
| High-speed port                |  |
| Number of channels             | 2 (simplex)  |
| Data interfaces                | Option module host (9961A-C or 9962A-C), most appropriate for simplex alarms and audio   |

For more information on data interfaces, refer to the data sheet of the 9961 and 9962.

# Technical Specifications

## 9752D Series

### Management

|                       |  |
|-----------------------|--|
| LED status indicators | Full-duplex link (green), local (red) or remote synchronisation error (yellow) |
| Management system     | 9900 Network Management System (NMS) compatible                                |

### Power requirements

|                   |                                     |
|-------------------|-------------------------------------|
| Voltage           | 5.7 to 6.4VDC                       |
| Power consumption |                                     |
| TX                | 600mA at 6VDC (3.6W)                |
| RX                | 550mA at 6VDC (3.3W)                |
| Rack-mount units  | 9002 or 9003-2 power supply chassis |

### Environmental

|                                   |  |
|-----------------------------------|--|
| Operating temperature             | -40°C to +74°C (-40°F to +165°F)   |
| Storage temperature               | -55°C to +85°C (-67°F to +185°F)   |
| Relative humidity                 | <95% with no condensation  |
| MTBF (mean time between failures) | >100,000 hours   |
| Safety and EMC                    | IEC/EN 60950-1, IEC/EN 60825-1, IEC 60825-2, EN 55024, EN 50130-4, EN 61000-6-2, EN 55022, FCC part 15 |

### Mechanical

|                        |  |
|------------------------|--|
| Housing                | Rack-mount units                           |
| Dimensions (h x w x d) | 154.9 x 20.3 x 218.4mm (6.1 x 0.8 x 8.6in) |
| Weight                 | 272g (0.6lbs)                              |

### Optical

|                                   | 9752DT/DR-MM<br>TX/RX | 9752DT/DR-SM<br>TX/RX |
|-----------------------------------|-----------------------|-----------------------|
| Fiber type                        | 1xMM (62.5)           | 1xSM (09)             |
| Output wavelength                 | 1310nm/NA             | 1310nm/NA             |
| Output power                      | -4dBm/NA              | -4dBm/NA              |
| Input sensitivity                 | NA/-22dBm             | NA/-26dBm             |
| System link budget                | 18dB at 1310nm        | 22dB at 1310nm        |
| Fiber length (range) <sup>2</sup> | 2km                   | 54km                  |
| Minimum link loss                 | 0dB                   | 0dB                   |
| Connector type                    | ST                    | ST (FC optional)      |

<sup>1</sup>Due to fiber bandwidth, the maximum transmission distance may be limited to 4km.

### Ordering Information

| Models        | Description   | Fiber type |
|---------------|---|------------|
| 9752DT-LDL-ST | 8-channel digital video transmitter with 1-way data/HS channels | 1xMM       |
| 9752DR-LM-ST  | 8-channel digital video receiver with 1-way data/HS channels    | 1xMM       |
| 9752DT-LD-ST  | 8-channel digital video transmitter with 1-way data/HS channels | 1xSM       |
| 9752DR-L-ST   | 8-channel digital video receiver with 1-way data/HS channels    | 1xSM       |



The quality management system used in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

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