

Features

- 2-channel video and data transmitters and receivers
- 9-bit uncompressed digital video
- High-quality video ≥ 63 dBw SNR
- Simplex High-Speed (HS) data port
- Available in a SpectraStream CWDM version
- Rack-mount version
- Network Management System (NMS) compatible



9191D Series

Two-channel video with simplex data

Description

The Optelecom® 9191D series modules digitise and transport two videos and one simplex High-Speed port over one optical fiber in one direction. 9-bit video sampling provides extremely high video quality. The High-Speed port supports transmission of 1.6Mb/s RS-422 or connection to an optional Option Module Host card for transport of either four or eight audio, data, or contact closure signals in the same direction as the video signal.

Uncompressed 9-bit digitising, oversampling, and digital filtering ensure a very high transmission performance, exceeding the requirements of the EIA RS-250C short haul specification.

The wide operating temperature range of these units makes the 9191D series well-suited for environmentally harsh applications such as traffic monitoring, video surveillance in city centers, and federal and critical infrastructures.

The 9191D series comes as a rack-mount version only, suitable for a 9002 or 9008 power supply cabinet. The 9191D series modules are managed with the Optelecom Network Management System (NMS).

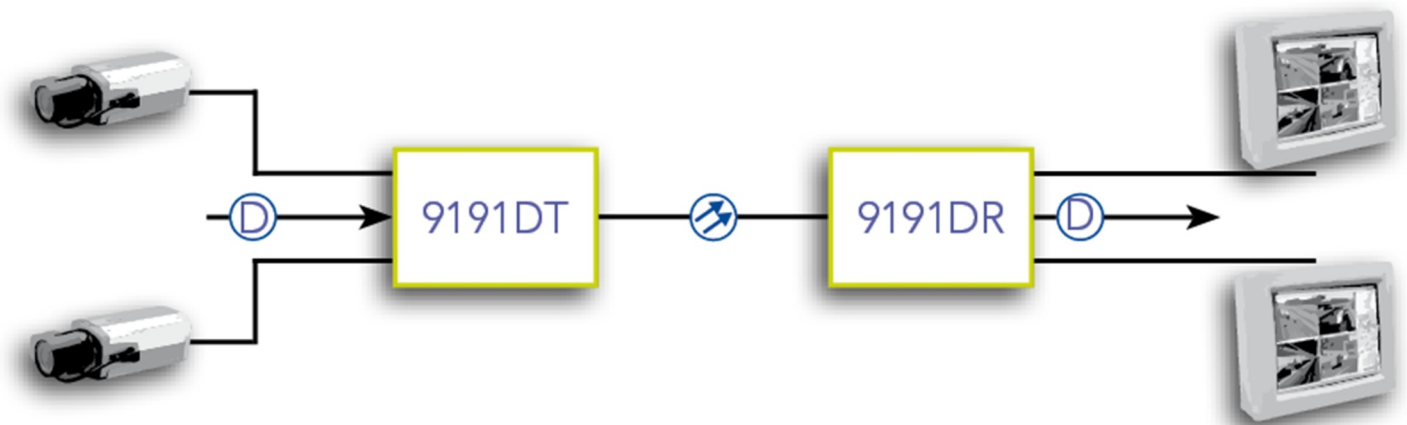
To create a standalone version of the 9191D rack-mount card, use the 9003-2 mini chassis.



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Technical Specifications

9191D Series



Video

Video format	NTSC, PAL
Video input	1Vpp into 75Ω
Connector type	BNC
Bandwidth	5Hz to 6.5MHz (-3dB)
Differential gain	1.0%
Differential phase	0.7°
Signal-to-noise ratio	≥63dBw
Video encoding	Uncompressed 9-bit linear PCM
Video sampling rate	16MHz

Management

LED status indicators	
9191DT	Power, video present (x2)
9191DR	Status, TX video present (x2)
Management system	9900 Network Management System (NMS)

Power requirements

9191DT	
Voltage	6VDC (chassis)
Current	420mA
9191DR	
Voltage	6VDC (chassis)
Current	380mA

Technical Specifications

9191D Series

High-speed ports

Number of ports	1 x simplex
Data format	RS-422 or extension port
Data rate, synchronous RS-422	15Mb/s
Data rate, asynchronous RS-422	≤1.5Mb/s
Extension port for:	
Option module host	9961A-C, 9962A-C
10Mb Ethernet	9971-C, 9972-C

For more information on CWDM options, contact TKH Security Solutions.

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

Mechanical

9191DT

Housing	1-slot card, 9000 series chassis
Dimensions (h x w x d)	154.9 x 40.6 x 218.4mm (6.1 x 1.6 x 8.6in)
Weight	453.6g (16.0oz)

9191DR

Housing	1-slot card, 9000 series chassis
Dimensions (h x w x d)	154.9 x 40.6 x 218.4mm (6.1 x 1.6 x 8.6in)
Weight	453.6g (16.0oz)

Optical

	9191DT-LDS/9191D-S TX/RX	9191DT-LD/9191DR-L TX/RX
Fiber type	MM (62.5)	SM (09)
Output wavelength	850nm/850nm	1310nm/1310nm
Output power	-7dBm/-7dBm	-7dBm/-7dBm
Input sensitivity	-30dBm/-30dBm	-30dBm/-30dBm
System link budget	17dB ¹ /17dB ¹	23dB/23dB
Fiber length (range) ²	25km	57km
Connector type	ST (others optional)	ST (others optional)

¹For 50/125µm fiber, subtract 4dB.

² Range may be limited by fiber bandwidth.

Ordering information

Models	Description	Fiber type
9191DT-LDS-ST	2-channel digital video and data transmitter	1xMM
9191DR-S-ST	2-channel digital video and data receiver	1xMM
9191DT-LD-ST	2-channel digital video and data transmitter	1xSM
9191DR-L-ST	2-channel digital video and data receiver	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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