Features

- 2-channel video, data, audio, CC or intercom transmitters and receivers
- 9-bit uncompressed digital video
- Very high quality video ≥67dBw SNR
- 100Mb/s Fast Ethernet switch
- 1 duplex high-speed (HS) port channel
- 2 duplex user-configurable option modules
- Network Management System (NMS) compatible



9292D Series Two-channel video w/HS port, option modules, Ethernet

Description

The Optelecom[®] 9292D series modules digitise and transport two video channels, four 100Mb/s Fast Ethernet channels, a duplex High-Speed port data channel, and two duplex Option Module channels over one optical fiber.

The two Option Module channels provide additional transport for any combination of two data, audio, contact closure, or intercom channels on the same fiber as the video and High-Speed port channels. The High-Speed port supports duplex 1.5Mb/s RS-422 or connection to an optional Option Module Host card for transport of four or eight duplex audio, data, contact closure, or intercom signals.

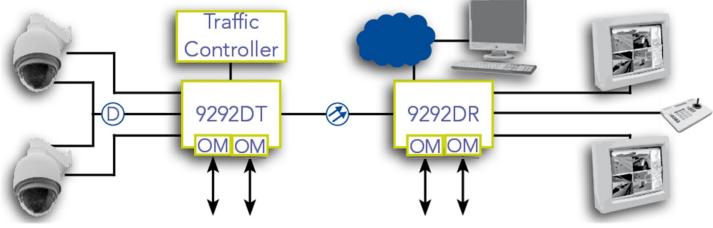
Uncompressed 9-bit digitising, oversampling, and digital filtering ensure a very high transmission performance, exceeding the requirements of the EIA RS-250C short haul specification. The wide operating temperature range of these units makes the 9292D series well-suited for environmentally harsh applications such as traffic monitoring, video surveillance in city centers, and federal and critical infrastructures.

The 9292D series comes as a rack-mount version, suitable for a 9002 or 9008 power supply cabinet, or as a standalone unit. The 9292D series modules are managed with the Optelecom[®] Network Management System (NMS).

To create a standalone version of the 9292D rack-mount card, use the 9003-2 mini chassis.







NTSC, PAL
1Vpp into 75Ω
BNC
5Hz to 6.5MHz (-3dB)
0.7%
0.7°
≥67dBw
Uncompressed 10-bit linear PCM
15MHz

Option modules	
Number of free channels	2x duplex
A Module	1x audio
B Module	1x user-configurable data (RS-232, RS-422, RS-485)
C Module	1x contact closure
D or E Module	2x audio (simplex only)
GM or GR Module	2x intercom audio

For more information on Option Modules, refer to the Option Modules data sheet or contact TKH Security Solutions.

High-speed ports	
Number of ports	1x duplex
Data format	RS-422 or extension port
Data rate	
Synchronous RS-422	15Mb/s
Asynchronous RS-422	≤1.5Mb/s
Extension port for:	
Option module host	9961A-C, 9962A-C
10Mb Ethernet	9971-C, 9972-C
Ethernet ports	4x 10/100 Fast Ethernet, autosensing, auto MDIX, full-duplex/half-duplex, autonegotiation, built-in 4-port unmanaged switch, RJ-45 connectors

Technical Specifications 9292D Series



Management

LED status indicators	
9292DT	Sync, not sync, loop, video present (x2)
9292DR	Sync, not sync, loop, Tx video present (x2)
Management system	9900 Network Management System (NMS)

Power requirements		
9292DT		
Voltage	6VDC (chassis)	
Current	650mA	
9592DR		
Voltage	6VDC (chassis)	
Current	700mA	

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		
9292DT		
Housing	2-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 (1.0lb)	
9292DR		
Housing	2-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 (1.0lb)	

Optical

optical			
	9292DT/DR-MM TX/RX	9292DT/DR-SM TX/RX	9292DT/DR-SMH TX/RX
Fiber type	MM (62.5)	SM (09)	SM (09)
Output wavelength	1310nm/1550nm	1310nm/1550nm	1550nm/1310nm
Output power	-7dBm/-7dBm	-7dBm/-7dBm	-3dBm/-3dBm
Input sensitivity	-23dBm/-30dBm	27dBm/-30dBm	27dBm/-30dBm
System link budget	16dB ¹ /16dB ¹	20dB/23dB	24dB/27dB
Fiber length (range)2	7km²	25km ²	68km
Connector type	ST (others optional)	ST (others optional)	ST (others optional)

 ^1For 50/125µm fiber, subtract 4dB.

²Range may be limited by modal and chromatic dispersion, fibre quality, and fiber bandwidth.

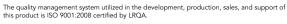
Technical Specifications 9292D Series



Ordering information			
Models*	Description	Fiber type	
9292DT(XX)/MMH-ST	2-channel digital video transmitter	1xMM	
9292DR(XX)/MMH-ST	2-channel digital video receiver	1xMM	
9292DT(XX)/SMH-ST	2-channel digital video transmitter	1xSM	
9292DR(XX)/SMH-ST	2-channel digital video receiver	1xSM	
9292DT(XX)/SM-ST	2-channel digital video transmitter	1xSM	
9292DR(XX)/SM-ST	2-channel digital video receiver	1xSM	



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