924XD SERIES

1-channel video w/3 duplex data/option channels

DESCRIPTION

The 924xD series modules digitize and transport one video, one duplex data, and two Option Module channels operating in both directions over one optical fiber. The dedicated data channel and two user selected option data types make this model pair a flexible and powerful solution.

FEATURES

Single-channel video transmitters and receivers

9-bit uncompressed digital video

High-quality video 63dBw SNR

1 duplex user-configurable data channel(s)

2 duplex user-configurable option modules

Standalone and rack-mount versions

Network Management System (NMS) compatible

The wide operating temperature range of these units makes the 9241D series well-suited for environmentally harsh applications such as traffic monitoring, video surveillance in city centers, and federal and critical infrastructures.

The 9241D series comes as a rack-mount version, suitable for a 9002, 9003-2, or 9008 power supply cabinet, or as a standalone unit. The 9241D series modules are managed with the Optelecom Network Management System (NMS).

To create a standalone version of the 9241D rack-mount card, use the 9003-2 mini chassis.

Video

Video format	NTSC, PAL
Video input	1Vpp into 75
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

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

Management

LED status indicators

9241DT	Sync, video present
9241DR	Sync, Tx video present
9245DT	Sync, not sync, loop, RC, video present
9245DR	Sync, not sync, loop, RC, Tx video present
Management system	9900 Network Management System (NMS)

Power requirements

9241DT	
Voltage	6VDC (chassis)
Current	700mA
9241DR	
Voltage	6VDC (chassis)
Current	700mA
9245DT	
Voltage	8-15VDC
Current	360mA at 12VDC
9245DR	
Voltage	8-15VDC
Current	360mA at 12VDC

Environmental

Operating temperature	-40°C to +74°C (-40°F to +165°F)

Specs

Environmental

Storage temperature	-55°C to +85°C (-67°F to +185°F)
Relative humidity	<95% with no condensation

Mechanical

9241DT	
Housing	1-slot card, 9000 series chassis
Dimensions (h x w x d)	154.9 x 20.3 x 218.4mm (6.1 x 0.8 x 8.6in)
Weight	272g (9.55oz)
9241DR	
Housing	1-slot card, 9000 series chassis
Dimensions (h x w x d)	154.9 x 20.3 x 218.4mm (6.1 x 0.8 x 8.6in)
Weight	272g (9.55oz)
9245DT	
Housing	Standalone
Dimensions (h x w x d)	40.6 x 81.3 x 127.0mm (1.6 x 3.2 x 5.0in)
Weight	363g (12.8oz)
9245DR	
Housing	Standalone
Dimensions (h x w x d)	40.6 x 81.3 x 127.0mm (1.6 x 3.2 x 5.0in)
Weight	363g (12.8oz)

Optical

9241DT/DR-MMH TX/RX	
Fiber type	MM (62.5)
Output wavelength	1310nm/1550nm
Output power	-7dBm/-7dBm
Input sensitivity	-29dBm/-30dBm
System link budget	22dB*/23dB*
Fiber length (range)**	19km
Connector type	ST (others optional)
9241DT/DR-SM TX/RX	
Fiber type	SM (09)
Output wavelength	1310nm/1550nm
Output power	-7dBm/-7dBm
Input sensitivity	-30dBm/-30dBm
System link budget	23dB/23dB
Fiber length (range)**	57km
Connector type	ST (others optional)
	*For 50/125m fiber, subtract 4dB.
	** Range may be limited by fiber bandwidth.

Ordering information

9241DT(XX)/MMH-ST	1-channel video with 3 duplex data/option channels	Fiber type : 1xMM

Specs

Ordering information	
9241DR(XX)/MMH-ST	1-channel video with 3 duplex data/option channels | Fiber type : 1xMM
9241DT(XX)/SM-ST	1-channel video with 3 duplex data/option channels | Fiber type : 1xSM
9241DR(XX)/SM-ST	1-channel video with 3 duplex data/option channels | Fiber type : 1xSM
9245DT	Standalone version of the 9421D transmitter model
9245DR	Standalone version of the 9421D receiver model
Replace (XX) in model number with code Option Modules	
Refer to the Option Modules data sheet or contact TKH Security Solutions	