

Features

- 8-channel RS-232 optical modems
- Uses time multiplexing data transmission techniques
- Synchronous or asynchronous operation
- Sources standard DCE clock frequencies
- Standalone and rack-mount versions
- Network Management System (NMS) compatible



9551 Series

Eight-channel RS-232 data modems

Description

These Optelecom® data modems transport eight channels of RS-232 data signal on one or two fibers. They are available in multi-mode and single-mode optical versions and rack-mount or standalone packages. They operate at baud rates of up to 115.2kb/s and can be configured as eight independent channels or TX/TX and handshaking signals.

The wide operating temperature range of these units makes the 9551 series well-suited for environmentally harsh applications such as traffic monitoring, video surveillance in city centers, and federal and critical infrastructures.

The 9551 series comes as a rack-mount version, suitable for a 9002 or 9008 power supply cabinet, or as a standalone unit. The 9551 series modules are managed with the Optelecom® Network Management System (NMS).

To create a standalone version of the 9551 rack-mount card, use the 9003-2 mini chassis.

Technical Specifications

9551 Series



Data interfaces

Data type	RS-232 (x8)
Asynchronous rate	DC to 115.2Kbps, auto baud
Synchronous data rates	1.2k, 2.4k, 3.6k, 4.8k, 7.2k, 9.6k, 14.4k, 19.2k, 28.8k, 38.4k, 57.6k, 76.8k, 115.2k baud, dip switch selected
Sampling rate	920 kHz
Pulse width distortion	<2.0% at 19.2k, 13% at 115.2k
Connector	DB25S (female 25-pin)

Management

LED status indicators	
9551	Sync, not sync, loop, loopback
9555	Power, sync, loop, Received Data (x8)
Management system	9900 Network Management System (NMS)

Power requirements

9551	
Voltage	6VDC (chassis)
Current	500mA
9555	
Voltage	8 to 14VDC
Current	360mA at 12VDC

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

9551	
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	226.9g (8.0oz)
9555	
Housing	Standalone chassis (size 5)
Dimensions (h x w x d)	40.6 x 81.3 x 127.0mm (1.6 x 3.3 x 5.0in)
Weight	317.5g (11.19oz)

Technical Specifications

9551 Series

Optical

	9551-S	9551-LD
Fiber type	MM (62.5)	SM (09)
Output wavelength	850nm	1310nm
Output power	-16dBm	-10dBm
Input sensitivity	-35dBm	-35dBm
System link budget	19dB ¹	25dB
Fiber length (range) ²	5km	62km
Connector type	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.

Ordering information

Models	Description	Fiber type
9551-LD-ST	8-channel fiber data modem	2xSM
9551-S-ST	8-channel fiber data modem	2xMM
9555-ST	Standalone version of the 9551 models	
PSA-UN12DC	Wall-Wart, switching power supply	
PSR-12DC	DIN rail mounting, switching power supply	



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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