

Wireless Serial/CAN Bridge with Camera Recorder GDM-3250



Durable Enclosure for Outdoor Use, 4-in-1 Camera Multi-View

Product Summary

With the GDM-3250, CAN and video data from up to 4 cameras can be transferred over the wireless LAN network. Using a PC or tablet, users can remotely monitor the vehicle operation in real-time. CAN and video data are captured in GDM-3250 internal storage and simultaneously communicated over the wireless network in real time. The GDM-3250 reduces time and effort for troubleshooting, monitoring and maintenance.

In the past, a lot of operational machine data and videos collected in factories, have been transferred, and saved by similar devices and cameras via cables or external storage devices. It was difficult for operators to work with data without stopping vehicles and machines. With the Silex's GDM-3250, it makes this data and video footages accessible via wireless in real time, significantly increasing the on-field efficiency.

Features

LAN converter for CAN/serial interface

Supports interfaces used for industrial vehicles/machines (CAN and RS-232C/485), GDM-3250 relays data to a wired/wireless LAN (IEEE802.11a/b/g/n).

Multiple video logging methods

GDM-3250 saves the vehicle's CAN and video data simultaneously at the same time making it easier for the operator to effectively operate machines and troubleshoot issues. Recording methods supported are EDR using CAN/serial/digital input signals, consecutive recording (automatic overwriting) and manual recording.

Real-time video transfer

GDM-3250 Real-time transfer of CAN and video data using wired and wireless LAN. It helps you to monitor the vehicle's surrounding environment and the vehicles CAN data in real time making the monitoring, troubleshooting and maintenance more efficient.

4-in-1 multi-view video

Up to 4 cameras can be connected. The camera view and logs are merged into one display. As GDM-3250 simultaneously records and transmits videos from various angles and locations, it enhances the efficiency of status monitoring.

Outdoor use

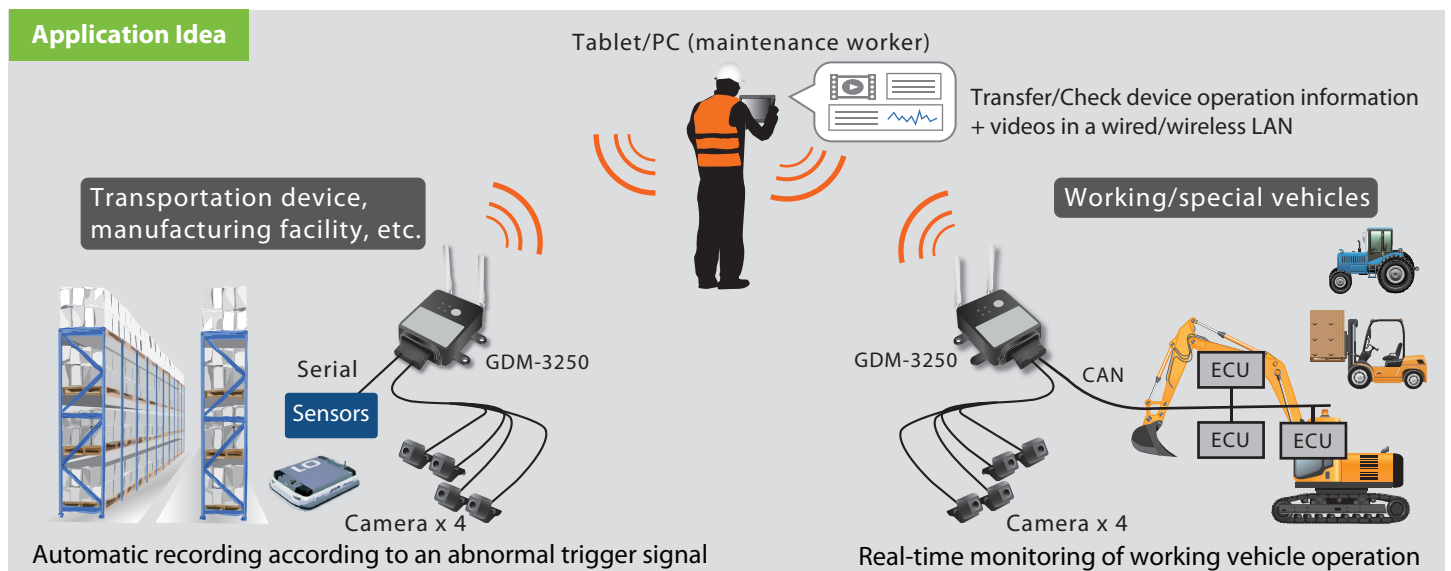
The enclosure is designed for dust/waterproof standards, which makes it ideal for environments where temperature and humidity change drastically.

No special application needed, easy setup, recording/viewing

GDM-3250 allows access of web browsers to configure cameras and play back videos. The video data is stored in the built-in storage, and downloaded via FTP or web browsers.

* Supported browsers: Google Chrome, Microsoft Internet Explorer, Edge

* Browsers can download the latest recording file only.



Specifications

Main system	CPU	NXP i.MX6 Solo automotive	
	ROM	2MB	
	RAM	1GB	
	Memory	eMMC : 16GB (pseudo SLC: 13GB available for the user)	
Interface	Main Connector	Assembled connectors (JAE MX23A)	
	Wired LAN	x1: 10Base-T/100Base-TX	
	Wireless LAN	x1: 802.11a/b/g/n (2.4GHz and 5GHz)	
	Camera input		x4: NTSC
			Camera power voltage: DC8.4V (typ)
	Digital	In	x 2: Open-collector connection
		Out *1	x 1: Open-collector connection, Max output current: 150mA
	CAN		x 1: CAN 2.0B Active, ISO11898 High Speed (max.1Mbit/s)
	Serial *2		RS-232C x1, RS-485 x1
	Power input		DC10V to 30V
Power consumption		DC24V 1.6A (Max)	
Enclosure	Housing	Die-cast aluminum (black paint outside)	
	Operating temperature	-30 to 65 deg. C	
	Operating humidity	15 to 95% RH (No internal condensation)	
	Dust/Waterproof	Dustproof: JIS D 0207 F2 / Waterproof: JIS D 0203 D2	
	Dimensions	142(W) x 120(D) x 46.3(H) mm	
	Weight	About 580g (incl. antennas)	
	Status display	2-color LED x 4 (Power, LAN, CAN, CAMERA)	
	Switch	x1 (Smart Wireless, reset)	

*1: No function to control digital output

*2: No control function

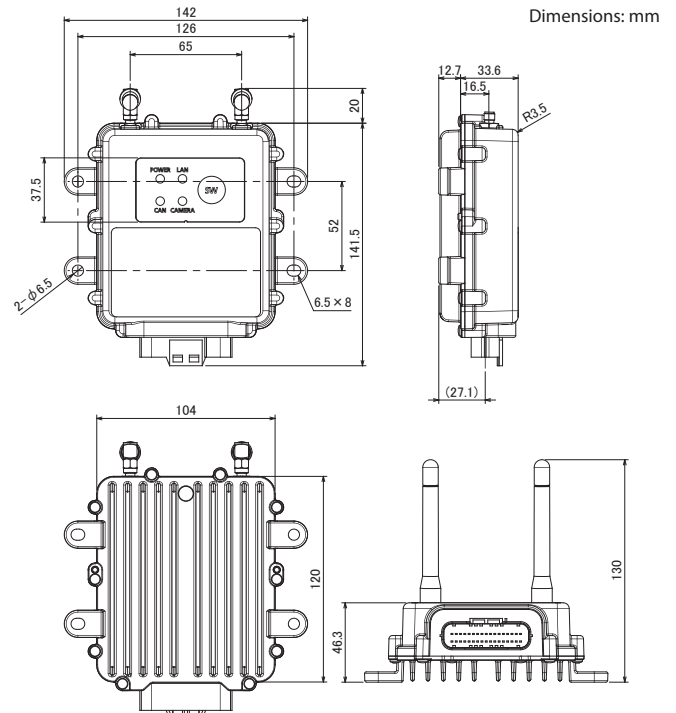
Product and Accessories

Item	Note
GDM-3250	Main unit incl. wireless antenna x 2, setup manuals
I/F Cable	Sold separately: one I/F cable needed per GDM-3250
Camera	Sold separately : up to 4 cameras can be attached

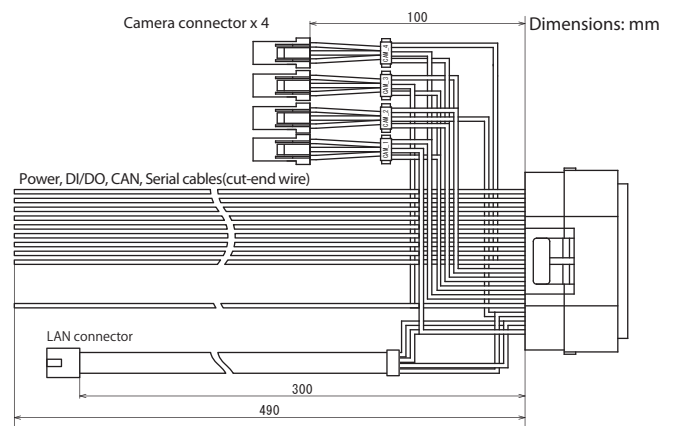
* Minimum setup: GDM-3250 and one I/F cable (no camera use)

* GDM-3250 can work with just one camera. Get cameras as necessary.

Mechanical Design



Interface Cable Dimensions



* Check our website for the pin assignment and camera outer design.

Video Recorder

Supported browsers	Google Chrome, Microsoft Internet Explorer *3, Edge Operation checked: Windows, Android *4
Max image transmission	4-in-1 concurrent transmission (send images by combining 4 views into one)
Max resolution	VGA (640 x 480)
Max frame rate	30 fps (using VGA and sending 1 camera image)
Camera angle	90-degree right rotation, horizontal (right-and-left) /vertical (upside-down) inversion
Video format	Video: H.264, Motion JPEG, Still image: JPEG
Transfer method	HTTP
Video image record	<ul style="list-style-type: none"> • Still image trigger photographing, filming trigger start/end • Event data recording (EDR) (start recording before and after the designated signal input) • Constant recording (automatic overwriting)

*3: Microsoft Internet Explorer only works with H.264 as the video format.

*4: Not all the combinations of supported OS and browsers guarantee the operation.

Camera Specifications (sold separately)

Feature	Polyamide resin (black)
Environmental resistance	Guaranteed operational temperature: -30 to 80 deg. C
	Water/Dustproof: equivalent to IP67
Dimensions	W 24 mm x D 25 mm x H 23 mm (excluding projection parts)
Cable length	50cm
Weight	40g
Operational voltage	6 V to 12 V
Image sensor	1/4 CMOS sensor supporting HDR function
Pixels	Effective: 672 (H) x 506 (V), Output: 648 (H) x 486 (V)
Resolution	Center: 320 TVL or more, Peripheral: 200 TVL or more
Angle of view	Horizontal: 132°, Vertical: 104°, Diagonal: 164°
Illuminance range / F-number	Illuminance range: 1 to 100K Lux, Lens F-number: 2.0

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Global marketing & support locations



Europe
silex technology europe GmbH
 +49-2154-88967-0
Toll-free hotline in Germany:
0800-7453938
www.silexeurope.com
 > contact@silexeurope.com

Japan
silex technology, Inc.
 +81-774-98-3782
www.silex.jp
 > support@silex.jp

USA
silex technology america, Inc.
 +1-801-747-0656
Kostenfreie Hotline USA:
866-765-8761
www.silexamerica.com
 > contact@silexamerica.com

China
silex technology beijing, Inc.
 +86-10-8497-1430
www.silex.com.cn
 > contact@silex.com.cn

