#### SL-COM-1 Serial Device Server

Quick start



This document is a reference guide only and must be used in conjunction with the SL-COM-1 User manual

#### IGSLCOM1-1002

#### INSTALLATION

#### Regulatory notes



- 1. The SL-COM-1 is suitable for use in non-hazardous locations only.
- 2. The SL-COM-1 is not authorized for use in life support devices or systems.
- 3. Wiring and installation must be in accordance with applicable electrical codes in accordance with the authority having jurisdiction
- 4. This is a Class A device and intended for commercial or industrial use. This equipment may cause radio interference if used in a residential area; in this case it is the operator's responsibility to take appropriate measures.
- 5. The precondition for compliance with EMC limit values is strict adherence to the guidelines specified in the SL-COM-1 User manual. This applies in particular to the area of grounding and shielding of cables.

#### FCC Notice (USA only)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

#### Industry Canada Notice (Canada only)

This Class A digital apparatus complies with Canadian ICES-003

#### SAFETY PRECAUTIONS



#### **ELECTRICAL HAZARD**

- . This equipment must be installed and serviced only by qualified personnel. Such work should be performed only after reading the SL-COM-1 User manual in its entirety.
- Before performing visual inspections, tests, or maintenance on this equipment, disconnect all sources of electric power. Assume that all circuits are live until they have been completely de-energized, tested, and tagged. Pay particular attention to the design of the power system. Consider all sources of power, including the possibility of
- · Apply appropriate personal protective equipment and follow safe electrical practices.
- · Turn off all power supplying the equipment in which the SL-COM-1 is to be installed before installing, wiring or removing the SL-COM-1.
- · Always use a properly rated voltage sensing device to confirm that power is off
- · The successful operation of this equipment depends upon proper handling, installation, and operation. Neglecting fundamental installation requirements may lead to personal injury as well as damage to electrical equipment or other property.

Failure to follow these instructions could result in death or serious injury!

To mount the unit on a DIN rail, slot

the top part of the SL-COM-1 into

the upper guide of the rail and low-

er the enclosure until the bottom of

To remove the SL-COM-1 from the

DIN rail, use a screw driver as a

lever by inserting it in the small

slot of the red hook and push

the red hook downwards. Then re-

move the unit from the rail by rais-

ing the bottom front edge of the en-

the red hook clicks into place.

#### INTRODUCTION

#### **Package Contents**

- · SL-COM-1 unit
- Quick start
- · 2-pin terminal block plug
- 6-pin terminal block plug

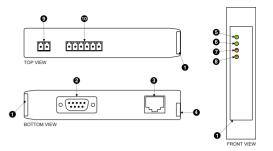
#### **Documentation and Additional Resources**

This Quick start must be used in conjunction with the SL-COM-1 User

#### Quick start checklist

- Obtain a copy of the SL-COM-1 User manual and read it properly. and in its entirety.
- · Mount the unit.
- · Connect the power. Do not connect yet serial ports.
- . Configure the Ethernet communications settings with a web browser (using an Ethernet crossover cable) or with a terminal program like HyperTerminal (using a null modem cable)
- · Configure the serial line communication settings
- · Configure the operational aspects of the device.
- · Wire serial line interfaces.

#### **DESCRIPTION**



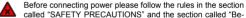
- Clear front cover
- 2 RS-232 connector
- Sthernet connector
- O DIN rail clip
- Power LED
- 6 Ethernet link LED
- Status 1 LED Status 2 LED
- Power terminals
- RS-485/RS-422 terminals

#### Before connecting anything



- 1. Before installing or removing the unit or any connector, ensure that the system power and external supplies have
- 2. Check the system supply voltage with a multimeter for correct voltage range and polarity.
- 3. Connect the power supply cable and switch on the system power. Check if the Power LED is lit.
- 4. Turn off system power.
- 5. Connect all I/O cables.
- 6. Once you are certain that all connections have been made properly, restore the power.

#### Power terminals pin assignment



called "SAFETY PRECAUTIONS" and the section called "Before connecting anything".



- 1 V+ Positive voltage supply (10 30 V DC) V- Negative voltage supply. DC power return
- Make sure that the polarity of the supply voltage is correct before connecting any device to the serial ports! A wrong polarity can cause high currents on the ground plane between the V- power supply pin and the serial port ground pins, which can cause damage to the device.

#### Mounting rules



· No water splash and water drops

(2)

- No aggressive gas, steam or liquids
  - · Avoid dusty environments.
  - Avoid shock or vibration

DIN rail mounting and removal

· Do not exceed the specified operational temperatures and

closure.

- · Mount inside an electrical switchboard or control cabinet.
- · Make sure there is sufficient air ventilation and clearance to other devices mounted next to the unit.
- · Observe applicable local regulations like EN60204 / VDF0113

#### Configuring and commissioning

The configuration pages are accessed using the integrated web server:



- Main menu O Gateway IP address
- Information area Configuration sub-menu
- set-up the SL-COM-1. Please consult the SL-COM-1 User Manual for further details how to

#### Ethernet & IP configuration

administrator. subnet mask, and default gateway address from your network Before configuring the SL-COM-1, obtain a unique static IP address,

configure the SL-COM-1's TCP/IP settings with this information. Use a web browser or a terminal program like HyperTerminal to

The factory default IP address of the SL-COM-1 is 192.168.1.130.

same IP subnet as the gateway. In order to connect to the SL-COM-1 via TCP/IP, your PC must be on

## IP setup using a terminal program like HyperTerminal

Please consult the SL-COM-1 User manual for further details on this

Pinout as per EIA-574 DTE. Please observe the cabling instructions

uį	Ring indicator	Ы	6	
uį	Clear to send	CTS	8	
ιno	Request to send	STA	L	
uį	Data set ready	DSR	9	
	Signal ground	СИD	9	
no	Data terminal ready	ATO	Þ	۱
no	Transmit data	ΠXΤ	3	
uį	Receive data	ВXD	2	Ιl
uį	Data carrier detect	DCD	L	

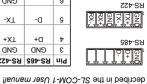


decribed in the SL-COM-1 User manual!

RS-232 connector pin assignment

LED indicators

Description	KS-422	RS-485	иiЧ
Signal common	СИD	GND	ε
Non-inverting RS-485 and RS-422 terminal		D+	Þ
Inverting RS-485 and RS-422 terminal		-а	g
Signal common	GND		9
Non-inverting RS-422 receiv- er terminal			L
Inverting RS-422 receiver ter-	-XA		8



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_	<u> </u>

Description	K2-455	RS-485	иiЧ
Signal common	СИD	GND	3
Non-inverting RS-485 and RS-422 terminal	+XT	D+	Þ
Inverting RS-485 and RS-422 terminal	-XT	-a	g
Signal common	GND		9
Non-inverting RS-422 receiv- er terminal	+XA		L
Inverting RS-422 receiver ter- minal	-XA		8

external chassis ground connection to terminate the shield. Do not connect the cable shield to the GND pins! Use an

Please observe the wiring, grounding and shielding instructions

RS-485/RS-422 terminals pin assignment

# MAINTENANCE AND TROUBLESHOOTING

### Maintenance

directly for assistance. user-serviceable parts. If the SL-COM-1 requires service, contact us The SL-COM-1 does not require maintenance, nor does it contain any

gocnment. Refer to the technical support contacts provided at the end of this

Do not oben the SL-COM-1 enclosure; this will void the product

#### Diagnostics and troubleshooting

## ELECTRICAL HAZARD

· Qualified persons performing diagnostics or qualified personnel. · This equipment must be installed and serviced only by

energized must comply with and follow safe electrical work troubleshooting that require electrical conductors to be

or serious injury! Failure to follow these instructions could result in death

data that may be helpful in troubleshooting communication problems. The status web pages served by the SL-COM-1, display diagnostic

particular page. If power to the SL-COM-1 is lost, all values reset to Clicking this button clears all cumulative readings shown on this (MAC) address. Some of these pages show a Clear Counter button. SL-COM-1, including the serial number and media access control In addition the About page contains information about your specific

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# Wm 027 utinsic consumption 30 mA typical @ 24 V DC 10-30 A DC /oltage

Canada	ICES-003 (Class A)
ASU	FCC Part 15 (Class A)
Europe	CE' KoHS
Australia	C-Tick
Compliance	
Weight	0.12 kg / 0.265 lb
Dimensions	ni 27.4 x 888.0 x 89.8 \ mm 021 x 8.22 x 101
Physical	
Operating ambience	Free from corrosive gas, minimal dust
Humidity rating	10 to 95% relative humidity, non condensing
Storage temperature	-25 to 85 °C / -13 to 185 °F
Operating temperature	0 fo 90 °C / 32 to 140 °F
Environmental	
Cooling	Convection
Classification / Type rating	l 9QV   NEMA Type 1
Mounting	35 mm DIV rail (EV 60715)
Material	Self-extinguishing PC/ABS blend (UL 94-V0)
Enclosure	
Conducted RF	EN 61000-4-6
Fast transients	EN 61000-4-4
Radiated RF	EN 61000-4-3
Electrostatic discharge	EN 61000-4-2
(Junumul	EN 22054
Emissions	AS/NZS CISPR 22 / EN 55022 (Class A)
Electromagnetic compatibility	

(CES-003 (Ciass A)

## Power supply SPECIFICATIONS

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on self test of the device is performed. then red for approximately 0.25 seconds. At the same time the power-A LED test is exercised at power-up, cycling each LED off, green and

corresponding status after the power-on self test has been completed: The following table outlines the indicator condition and the

status  Flashing red  No connection on Ethernet but data is re- Ges rate  The device has an unrecoverable fault; may Red  Red  Red  Ined replacing, Flashing sequence and rate Red  Red  Red  Red  Red  Red  Red  Re	a:	Function	Condition	Indication
Filmer Green Power supply OK  Green Ethermet link OK  Off No Ethermet link OK  Off No Ethermet Ink OK  Off No Ethermet Ink OK  Off Off Off Off Off Off Off Off Off Of	JOWOS	TOWOR	#O	No power applied to the device.
Ink   Green   Ethemet connection. No data on serial   Off	IDMO		Green	Power supply OK
Green   Etheemet connection. No data on serial port.   Off   No Etheemet connection. No data on serial port.   Plashing green   Connection on Ethemet and data transmitting teen   Connection on Ethemet and data transmitting teen   Connection on Ethemet but data transmitting teen   Connection on Ethemet and tast and the connection of the	14		#O	No Ethernet link
Potice Fashing green Connection on Ethernet but no data trans- Fashing green Connection on Ethernet but no take a 2.0  Forein Connection on Ethernet and data transmitting red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is re- Fashing red Connection on Ethernet but data is red Connection	VII	Device	Green	Ethernet link OK
Povice  Tataliar  Tashing red  Connection on Ethermet and data transmilting red  Connection on Ethermet but data is re- Grean on serial port.  The device has an unrecoverable fault; may need replacing. Flashing sequence and reference and rate.			Off	
Surface in the profit of the ceiving on serial port.  Status and serial connection on Ethermet but data is re- a state convex on serial port.  2.5 s rate convex on serial port.  The device has an unrecoverable fault; may be a serial ord.  Red replacing. Flashing sequence and rate is the sequence and rate.				
Flashing red No connection on Ethermet but data is re- cived on serial port.  2.6 s rate 7.0 s rate backet bas an unrecoverable fault; may need replacing. Flashing sequence and rate	-e		Green	
Red need replacing. Flashing sequence and rate				
COORD VIDE CONDUIN GTT TOWNS IN			Вed	