

Hardware

RemoteCOM (C20 - C25)

RemoteCOM can be installed on any device from the Redisage C20 - C25 Ethernet Converters family.

Features

Features	Download the RemoteCOM software
Ethernet converter to RS232/RS485	
ESD protection for the RS485 data line	
Power supply: +12 to +30 VDC	
Transmission speed up to 115200 bps	
Tx, Rx and power LED indicators	
RS485 embedded termination 120 ohm	
Operating temperatures: -40°C to +75°C	
DIN rail mounting	
Dimensions: 90x56.4x22.5 mm	
3 years warranty	
Customization of OEM is welcomed	

Frame ground FG

Electronic circuits are constantly prone to electrostatic discharge ESD. Redisage Electronics modules feature a design for the frame ground terminal block FG. The frame ground provides a path for bypassing ESD, which provides enhanced static protection ESD abilities and ensures the module is more reliable. Connecting FG terminal block to the earth ground will bypass the ESD disturbances outside the device so will provide a better level of protection against ESD.

Frame Ground FG connection reference drawing is provided below.



If earth ground is not available FG can be left floating or it can be connected with the power supply GND.


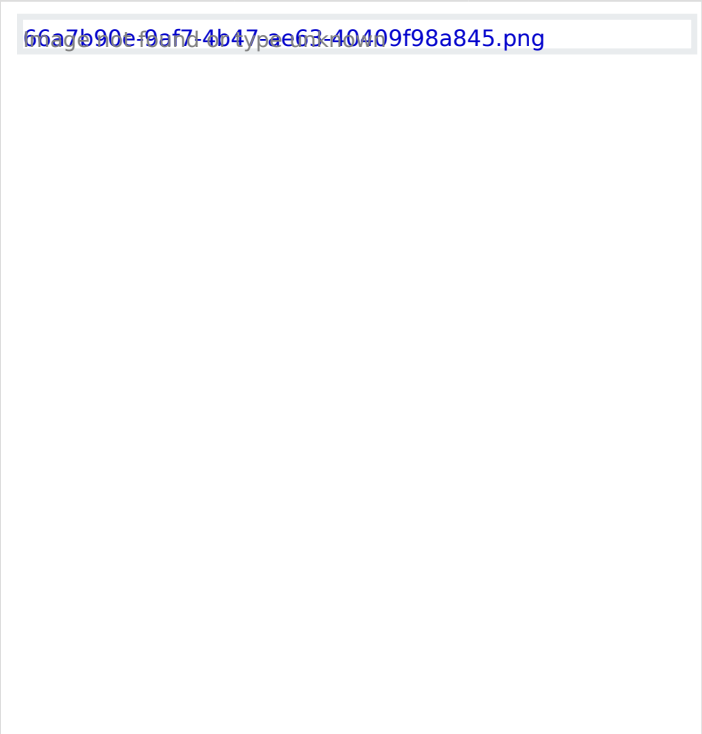
Specifications

Redisage PN		C20	C21	C22	C23	C24	C25
Ports	RS232	2x	-	-	4x	-	2x
	RS485	-	1x	-	-	4x	2x
	RS232/RS485	-	-	2x	-	-	-
Microcontroller		ESP32			STM32F4		
WiFi		N/A					
Power	Voltage	12-30 VDC					
	Power	< 1 W					
Frame ground connection		yes					
Baud rate		up to 115200 bps					
LED indicators		communication Tx, Rx and power					

Redisage PN		C20	C21	C22	C23	C24	C25
RS485 termination		120 ohm manually enabled					
Connector	RS232/RS485	8-pin terminal block max. 2.5 mm ² wire					
	Power	3-pin terminal block max. 2.5 mm ² wire					
	Ethernet	RJ45					
Transmission distance	RS485	max. 1,200 m at 9.6 kbps; max. 400 m at 115.2 kbps (Belden 9841 2P twisted-pair cable, if different cables are used, the transmission distance may change)					
	RS232	max. 15 m at 115.2 kbps					
Mounting and enclosure		DIN rail, plastic PA - UL 94 V0, black/green					
Temperatures		-40°C to +75°C operating and storage					
Humidity		10 - 90% RH, non-condensing					
ESD protection		±4 kV contact discharge / ±8 kV air discharge					
Certification		CE, RoHS					

LED indicators

Converters C20 - C22	Converters C23 - C25
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LED indicator	Color	Function	LED indicator	Color	Function
PW	Blue	Power	PW	Blue	Power
ETH	Green	Network activity	ETH	Green	Network activity
ST	Orange	Console mode	CN	Yellow	Console mode
	Red	Service mode	COM	Green	RS232/RS485 activity
			SR	Red	Service mode
			ER	Yellow	Error

Pin assignments

<div>C20</div> <div></div>	<div>C21</div> <div></div>
<div>C22</div> <div></div>	<div>C23</div> <div></div>
<div>C24</div> <div></div>	<div>C25</div> <div></div>

In the C22 converter user should use only RS232 or only RS485 interface of one port as they occupy the same internal bus of the device.