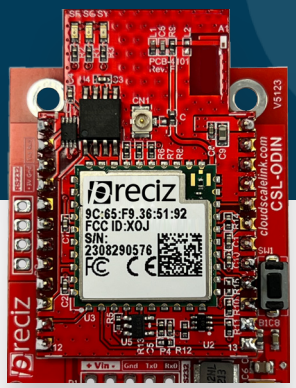
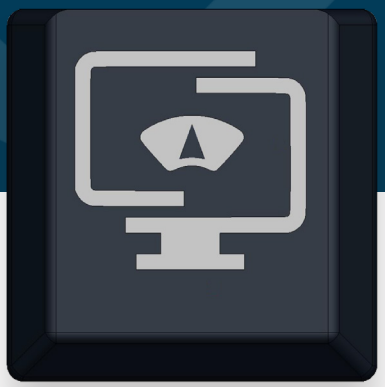
CloudScaleLink

CSL-ODIN

CloudScaleLink ODIN is a miniature RS-232 to Wi-Fi/ Bluetooth converter module. It is a link between an RS-232 device and Server, enabling two-way CLOUD communication over Wi-Fi.





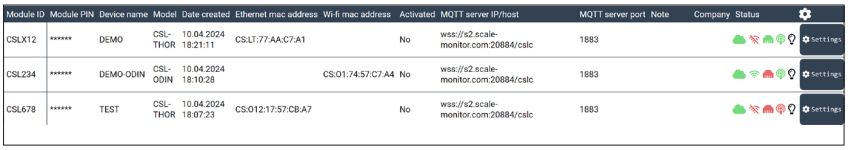
UNIQUE FEATURES

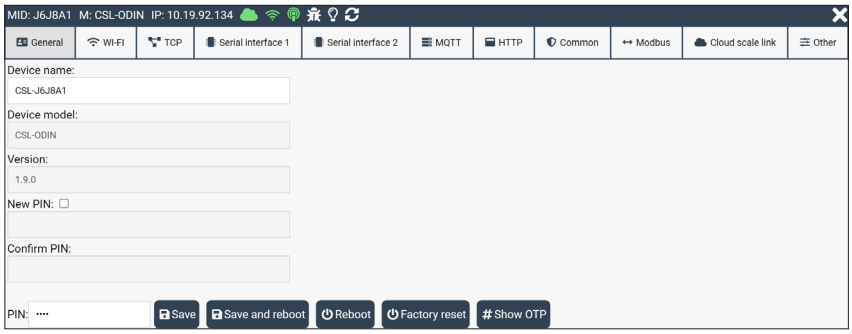
CONNECTIVITY	Connects any device with RS-232 to cloud.
PERFECT FIT	Due to its small size it fits inside the housing of almost any device.
VERSATILITY	The module supports all the major communication protocols, so it can be used for various operations.
LIGHTNING SPEED	Because of the powerful CPU it reaches response time up to 40ms, which makes it suitable for real time operations
DEBUGGING	Real time debugging enables IT personnel to diagnose and monitor, send and receive data on serial interface as also on WIFI interface.
CMP	**C**loud **M**anagement **P**latform enables you to centrally monitor all your modules in real time and gives you the possibility to change the module settings remotely from anywhere in the world.

CLOUD MANAGEMENT PLATFORM

CMP allows you to monitor, manage, ping, update or change settings on your modules remotely. All modules are connected into one centrally managed system.

Whether you are a distributor or IT personell you will be able to help users instantly from anywhere in the world to setup, configure or troubleshoot their CloudScaleLink modules.





CLOUD based

NO download, installation or update

Manage all CSL's from one place

Integrated test tool

Integrated DEBUGGER

Setup & configure CSL remotely

Remote monitoring

Any IT person that was confronted with communication problems on the field knows how frustrating is solving issues without proper **diagnostic tool**. With this in mind we integrated in all CSL's special **debugging tool** which gives you all information about WIFI connection, MQTT connection, statuses of the socket and also shows you in real time commands and answers received on all sockets (TCP/IP, MQTT, HTTP, etc.) and serial port RS-232.

Integrated test tool

You can also send commands to device via **integrated communication** tool which gives IT to test communication between RS-232/RS-485 and ERP, MESH, Andon systems etc.

TECHNICAL FEATURES

GENERAL

Compatibility	Any device with serial port RS-232
Dimensions	51×37×9mm LxWxH (Without housing)
Power supply	5 to 24Vdc, typical absorption: 100 mA @ 5 Vdc
Operating temperature	-20 ~ +50°C
Humidity range	10%~85% without condensation
Buttons	Dedicated button to initialize settings or reset device
Onboard LEDs	Orange/Green/Red for signaling status
Other	– Freely configurable RS-232 – Remote firmware update – WIFI – Over the Air update (OTA)

CONNECTIVITY

RS-232	
Baudrate	1200/2400/4800/9600/19200/38400/57600/ 115200bps
Parity	none, even, odd
Data bits	7/8
Bluetooth	Bluetooth Low Energy 4.2 Can be used for communication via RS-232, real-time debugging and configuration of CSL.
Wi-Fi	
Frequency	Wi-Fi 2.4 Ghz a/b/g/n Wi-Fi 5Ghz a/n
Encryption	Open/WEP64/WEP128/WPA/WPA2

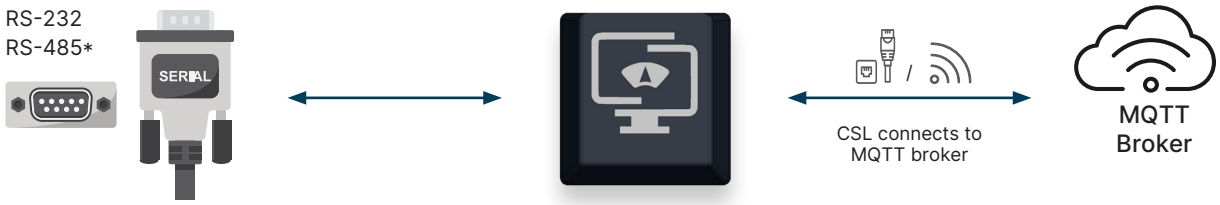
PROTOCOLS

MQTT	MQTT v.3.1.1
ModBus	RTU to TCP/IP RTU to MQTT v.3.1.1
TCP/IP	Server/Client
HTTP/REST	HTTPD server for configuration and POST/GET methods for RS232 data exchange via REST services
OTHER	DNS, IP, DHCP, ICMP, ARP

SUPPORTED PROTOCOLS

RS-232 TO MQTT

V. 3.1.1 – with freely configurable topic, device id, option to subscribe to topic, and optional authentication with username/ password, last will message, message on connect, etc. – supports bi-directional communication

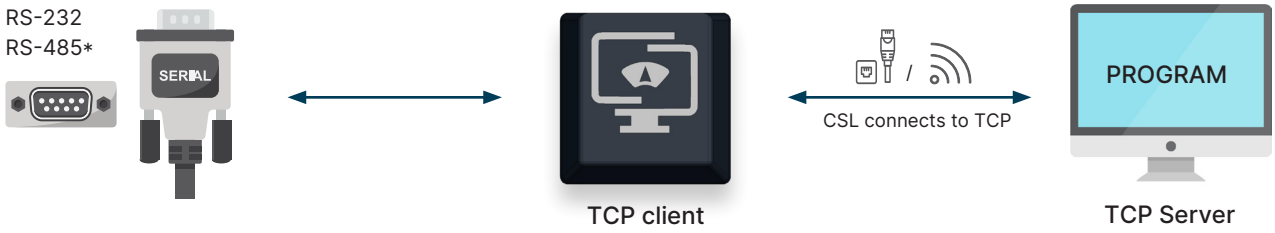


RS-232 TO HTTP

REST POST/GET with response in JSON format including device id which is freely configurable – supports bi-directional communication

RS-232 TO TCP/IP CLIENT

mode with configurable TCP client IP and port – supports bi-directional communication

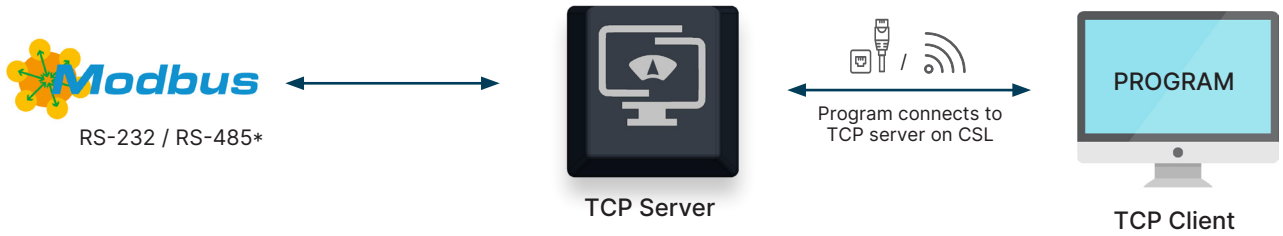


SUPPORTED PROTOCOLS

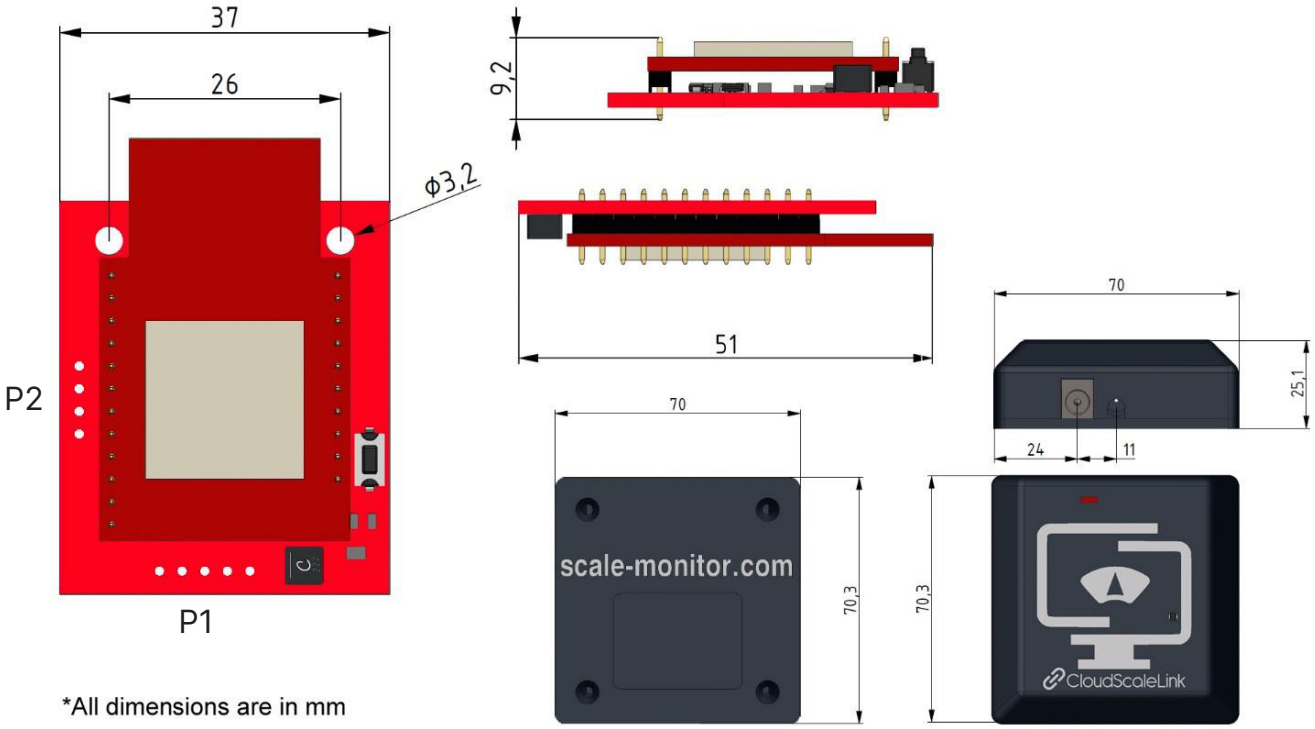
RS-232 TO TCP/IP SERVER

mode with configurable TCP server port – supports bi-directional communication

MODBUS



OUTLINE DIMENSIONS



*All dimensions are in mm

P1 connector:

#	Description
+Vin	5-24Vdc
-Vin	0Vdc
GND	Ground
Rx0	Serial port 1 - recieve RX
Tx0	Serial port 1 - transmit TX

P2 connector:

#	Description
+3V	reserved
GND	Ground
Rx0	Serial port 2 - recieve RX
Tx0	Serial port 2 - transmit RX

Connecting scales
around the globe.

CloudScaleLink

Your local partner

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