

The Cosworth RLU is a high bandwidth Ethernet data hub which enables multiple streams of Ethernet data to be logged directly to a standard USB memory stick for instant data offload. Compatible with a range of Cosworth data loggers, ECUs and power controllers, the RLU can record up to 5 separate streams of data.

Configuration is simply a matter of partitioning the USB stick for each separate Ethernet stream using Cosworth Toolset. The configuration of the data stream is defined by the source of the data, so once partitioned the RLU requires no further configuration.

The RLU contains an integrated 100Mb/s Ethernet switch enabling connectivity for up to two Ethernet devices, plus a single PC connection for system configuration. This combination allows the RLU to act as a central Ethernet Hub.

Measuring just 32x70x80mm and weighing only 160g the rugged anodised aluminium finish is specifically designed for use in harsh environments where space and weight are important factors.



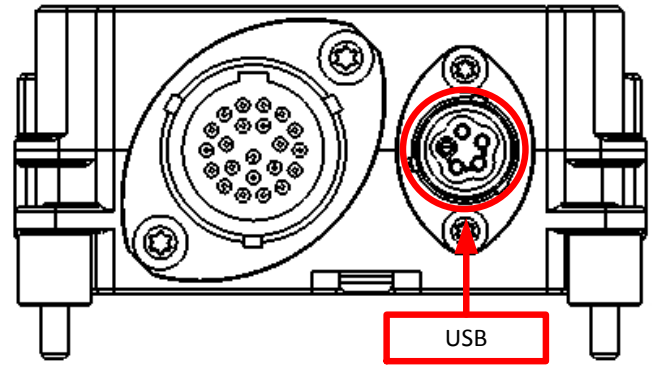
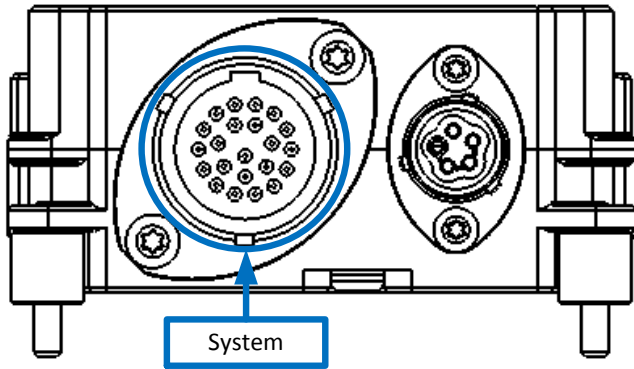
The USB port has been designed to be extended via a USB extension cable to enable easy access to remove the USB stick. Lengths of up to 3m between the RLU box and the USB plug-in point are supported.

Specifications

IO Technical Data	
Supply Voltage	6-33V
Supply Current	155mA @ 13.8V
Serial Ports	1x Bi-directional RS232 Port Max BAUD Rate: 115200
Ethernet Connections	3x 100Base-T
USB Ports	1x USB2 (compatible with USB3)
USB Flash Drive requirements	USB2 / USB3 min recommended 1GB
LEDs	3x Diagnostic 3 x Ethernet activity

Mechanical Data	
Case Dimensions	H32 x W70 x D80mm
Weight	160g
Environmental	IP65,IP67
Temperature Ratings	Operating -20 to +70°C Storage -30 to +80°C
Construction	6082-T6 Aluminium Anodised
Vibration	Cosworth DV-V(c)

Connector Information



System Connector

Connector	Mating connector
AS212-35PN	AS612-35SN

USB Connector

Connector	Mating connector
ASL206-05SN-HE	AS606-05PN-HE

System Connector Pinout

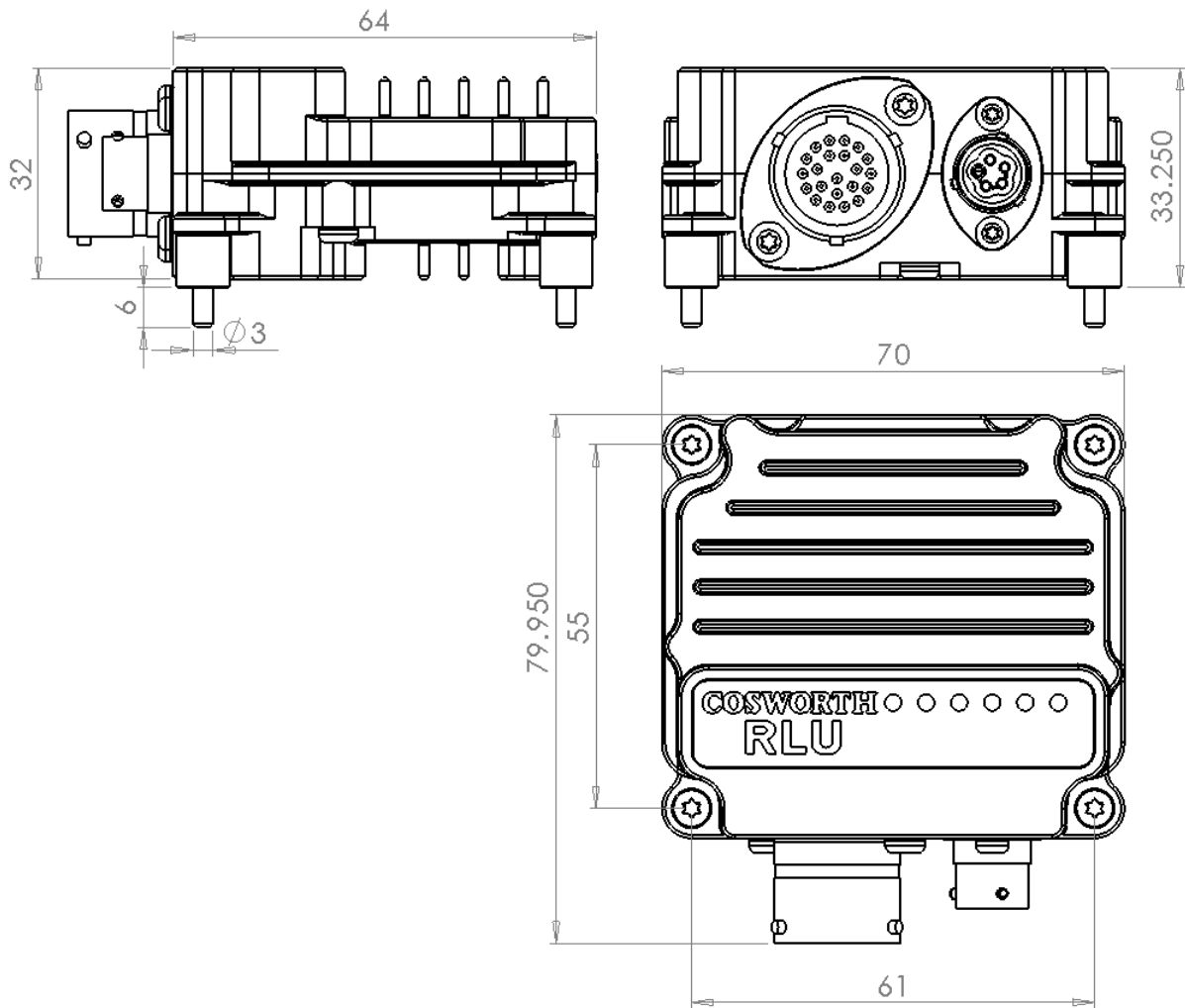
Pin	Signal	Description
1	RS232Rx	RS232 Debug Rx
2	N/C	Not connected
3	N/C	Not connected
4	Enet1Rx+	Ethernet 1 Rx+
5	Enet1Rx-	Ethernet 1 Rx-
6	Enet1Tx+	Ethernet 1 Tx+
7	+12V	Supply Power +12V
8	Enet2Rx+	Ethernet 2 Rx+
9	Enet2Tx+	Ethernet 2 Tx+
10	N/C	Not connected
11	N/C	Not connected
12	Enet3Rx-	Ethernet 3 Rx-
13	Enet3Tx+	Ethernet 3 Tx+
14	RS232Tx	RS232 Debug Tx / Telem Tx
15	N/C	Not connected
16	N/C	Not connected
17	Enet1Tx-	Ethernet 1 Tx-
18	Enet2Rx-	Ethernet 2 Rx-
19	Enet2Tx-	Ethernet 2 Tx-
20	Enet3Rx+	Ethernet 3 Rx+
21	Enet3Tx-	Ethernet 3 Tx-
22	GND	Supply Ground

USB Connector Pinout

Pin	Signal	Description
1	n/c	n/c
2	USB5V	USB +5V
3	USBD+	USB Data +
4	USBD-	USB Data -
5	USB GND	USB Ground
scn		USB Screen ¹

¹Make sure to connect the screen from the USB to the shell of the ASL connector when making interconnect loom.

Dimensions



All dimensions shown in mm

Ordering Information

Part Number	
01L-650030	RLU Logger ²
60L-650039	RLU USB Loom (1m)
60L-650040	RLU Bench Loom

² USB Flash Drive NOT included

