

LORU0101 Pempek OBP Module Receiver Control Dual Hub (Bridge Fibre)

The LORU0101 is an Pempek OBP Mining PLC Processor module is used for legacy mobile mining machinery control and automation applications that are programmed and maintained by Pempek automation software developers.

The LORU0101 model does not provide an AS4871-compliant clock/memory retention battery and is therefore not suitable for new machine automation designs.

In addition to sixteen (16) local digital inputs (24VDC); the module provides a number of field bus options - including CAN (4), RS-422 (4) ad RS-232 (1).

The module also supports Pempek CAN Fibre ports (8 channels) for convenient, reliable control and monitoring of Pempek OBP Mining PLC IS I/O modules. Two (2) CAN channels are shared with Fibre Ports (distributed with 4 ports each).

A built-in radio data receiver directly supports radio remote control applications.



Module Type: Processor Module (with built-in radio control receiver)

Supply Input: 24VDC (+/- 10%) / 5 Watts (Max)

Data Communications: Copper CAN (4), Fibre CAN
(1 shared with Copper CAN), RS-422 (3), RS-232 (2), Radio

Control Receiver

Operating Temperature: -20 to 70 C Inputs: 16 x Digital Inputs (24VDC)

Outputs: 1 x C-Form Relay (110VAC / 8 A)

Connector 1: Pempek OBP A2 (24VDC Input + CAN Bus A)

Connector 2: Ethernet RJ-45 (Programming)

Connector 3: Pempek OBP Data A68 (CAN B,C,D, RS422,

RS232)

Connector 4: Pempek OBP A69 (Digital Inputs, Relay Output)
Connector 5: BNC Coax (Radio Control Antenna Input)

CONNECTOR A2

PIN	Connector A2 Burndy Female 8 Way	Signal
A2-A	Supply Input	24VDC Supply Input
A2-B	Supply Input	OVDC Supply Input
A2-C	CAN A (Positive)	Communications
A2-D	CAN A (Positive)	Communications
A2-E	CAN A (Negative)	Communications
A2-F	CAN A (Negative)	Communications
A2-G	Termination Link 1 - 1	Termination Link Input
A2-H	Termination Link 1 - 2	Termination Link Input

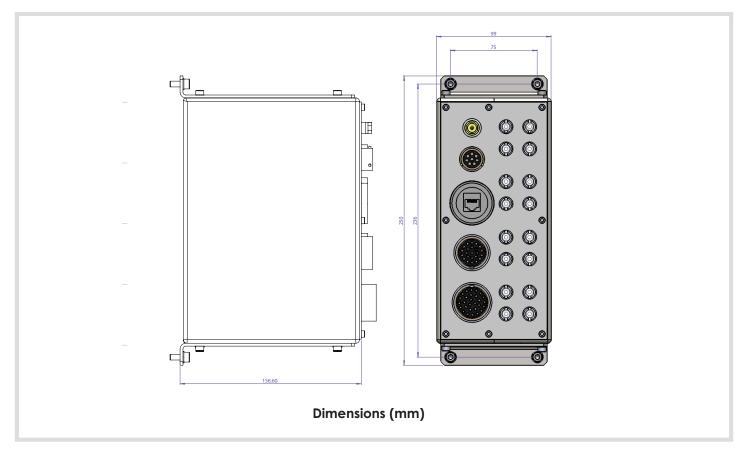


Datasheet-LORU0101

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CONNECTOR A68

1 A CANH1 2 B CANL1 3 C CANH2 4 D CANL2 5 E CANH3 6 F CANL3 7 G OVDC 8 H RXA- 9 J RXA+ 10 K TXA- 11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC- 19 V TXC- 20 W TXC- 21 X RXD 22 Y TXD	No.	Connector A68 23 (32) Burndy Female PIN	Name
3 C CANH2 4 D CANL2 5 E CANH3 6 F CANL3 7 G OVDC 8 H RXA- 9 J RXA+ 10 K TXA- 11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC- 19 V TXC- 20 W TXC- 21 X RXD 22 Y TXD	1	Α	CANH1
4 D CANL2 5 E CANH3 6 F CANL3 7 G OVDC 8 H RXA- 9 J RXA+ 10 K TXA- 11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC- 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	2	В	CANL1
5 E CANH3 6 F CANL3 7 G OVDC 8 H RXA- 9 J RXA+ 10 K TXA- 11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC- 19 V TXC- 20 W TXC- 21 X RXD 22 Y TXD	3	С	CANH2
6 F CANL3 7 G OVDC 8 H RXA- 9 J RXA+ 10 K TXA- 11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC- 21 X RXD 22 Y TXD	4	D	CANL2
7 G OVDC 8 H RXA- 9 J RXA+ 10 K TXA- 11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	5	E	CANH3
8 H RXA- 9 J RXA+ 10 K TXA- 11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC- 21 X RXD 22 Y TXD	6	F	CANL3
9 J RXA+ 10 K TXA- 11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC- 21 X RXD 22 Y TXD	7	G	0VDC
10 K TXA- 11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC- 21 X RXD 22 Y TXD	8	Н	RXA-
11 L TXA+ 12 M RXB-/CTSB 13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	9	J	RXA+
12 M RXB- /CTSB 13 N RXB+ /RXB 14 P TXB- / TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	10	K	TXA-
13 N RXB+/RXB 14 P TXB-/TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	11	L	TXA+
14 P TXB- / TXB 15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	12	М	RXB-/CTSB
15 R TXB+/RTSB 16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	13	N	RXB+ /RXB
16 S OVDC 17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	14	Р	TXB- / TXB
17 T RXC- 18 U RXC+ 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	15	R	TXB+/RTSB
18 U RXC+ 19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	16	S	0VDC
19 V TXC- 20 W TXC+ 21 X RXD 22 Y TXD	17	Т	RXC-
20 W TXC+ 21 X RXD 22 Y TXD	18	U	RXC+
21 X RXD 22 Y TXD	19	V	TXC-
22 Y TXD	20	W	TXC+
	21	Χ	RXD
	22	Y	TXD
Z OVDC	23	Z	0VDC



Datasheet-LORU0101



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CONNECTOR A69

No.	Connector A69	Name
	28 (41) Burndy Female PIN	
1	A	DGI-1
2	В	DGI-2
3	С	DGI-3
4	D	DGI-4
5	E	DGI-5
6	F	DGI-6
7	G	DGI-7
8	Н	DGI-8
9	J	DGI-9
10	K	DGI-10
11	L	DGI-11
12	М	DGI-12
13	N	DGI-13
14	Р	DGI-14
15	R	DGI-15
16	S	DGI-16
17	T	0VDC
18	U	CAN 1-L1
19	V	CAN 1-L2
20	W	COLDFIRE UART RX-
21	Χ	COLDFIRE UART RX+
22	Υ	COLDFIRE UART TX-
23	Z	COLDFIRE UART TX+
24	а	CAN 2-L1
25	b	CAN 2-L2
26	С	RELAY IN
27	d	RELAY NC
28	е	RELAY NO



Fibre Optic Patch ST-ST Multi-mode

Part Number	Description
H0LW0401	Fibre Optic Patch ST-ST Multi-mode

Specifications

Product Type: Pre-manufactured cable assembly
 Construction: Fibre-optic with ST terminations
 Connector 1: Fibre ST Connector (2 connectors)
 Connector 2: Fibre ST Connector (2 connectors)

• Conductors: 2

Cable Length: 0.8 metresPin Type: ST Fibre Plugs

Conductor Type: Multi-mode Fibre-optic

Insulation Rating: N/A

• Temperature Rating: $-40^{\circ \text{C}}$ to 85 $^{\circ \text{C}}$

Connector Assembly

Part Number	Description
H0RU0201	Connector Assembly A68
H0RU0301	Connector Assembly A69

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