# Datasheet

Pempek OBP-PLUS Mining PLC processor module supports immediate integration into mobile mining machinery control and automation applications.

The product features an unique dual-processor architecture - with one processor dedicated to fast, reliable I/O management and safety functions.

The second processor supports a flexible automation programming and configuration system.

Allowing end-users full access to high level control, automation and data collection.

**LOZU1101** in addition to sixteen (16) local digital inputs (24VDC); the module provides a number of field bus options - including CAN (4), Ethernet (2) and RS-422 (3).

Once of the CAN busses also features eight (8) fibre-optic ports for connection to intrinsically-safe I/O modules via fibre-optic cables.

The Pempek OBP-PLUS development environment - based on the popular CODESYS 3.5 programming tool chain - supports immediate integration of many industry-standard I/O devices and smart components.



nade for mining

- **Type:** Programmable, dual-processor machine automation processor module
- Programmability: CODESYS 3.5 PLC
  Development System
- Local I/O: 16 x Digital Inputs (24 VDC)
- Memory Battery: A\$4871-compliant
- LOZU1101 Field Buses: 3 x CAN (copper) / 1 x
  CAN (fibre) with 8 ports / 2 x Ethernet / 3 x RS-422

#### **CONNECTOR A2**

PIN	Connector A2 Burndy Female 8 Way	Signal
A2-A	Supply Input	24VDC Supply Input
A2-B	Supply Input	0VDC 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



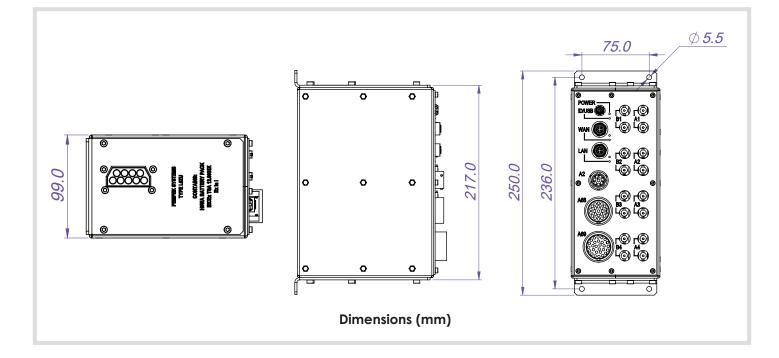
© Pempek 1985 – 2024 www.pempek.w

www.pempek.world | sales@pempek.world | 3/13 Hoyle Ave Castle Hill NSW 2154 | +61 02 8853 4800

Pempek Systems Pty Ltd ACN 622 172 721 (Pempek) is the owner of all intellectual property rights subsisting in all of its products, software and hardware, as well as all product information contained in this document (including without limitation in respect of all copyright, designs and know-how). Your use of Pempek's products and intellectual property is strictly subject to: Pempek's Licence Terms and Conditions, which are accessible here: <a href="https://pempek.world/terms-and-conditions/#PempekIntellectualPropertyLicenceAgreement">https://pempek.world/terms-and-conditions/#PempekIntellectualPropertyLicenceAgreement</a>

Pempek's Product Terms and Conditions are accessible here: <a href="https://pempek.world/terms-and-conditions">https://pempek.world/terms-and-conditions</a> by requesting Pempek to provide its products and services to you, or by continuing to use Pempek's products and services, you confirm your acceptance of the terms and conditions specified above. You agree and acknowledge that these terms form a legally binding agreement between you and Pempek. Pempek reserves the right to amend its terms and conditions at any time.

LOZU1101 Pempek OBP-PLUS Processor Module CODESYS (with Fibre-optic CAN Bus)



#### **CONNECTOR A68**

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



Datasheet-L0ZU1101

© Pempek 1985 – 2024 www.pempek.world | sales@pempek.world | 3/13 Hoyle Ave Castle Hill NSW 2154 | +61 02 8853 4800

Pempek Systems Pty Ltd ACN 622 172 721 (Pempek) is the owner of all intellectual property rights subsisting in all of its products, software and hardware, as well as all product information contained in this document (including without limitation in respect of all copyright, designs and know-how). Your use of Pempek's products and intellectual property is strictly subject to: Pempek's Licence Terms and Conditions, which are accessible here: <a href="https://pempek.world/terms-and-conditions/#PempekIntellectualPropertyLicenceAgreement">https://pempek.world/terms-and-conditions/#PempekIntellectualPropertyLicenceAgreement</a>

Pempek's Product Terms and Conditions are accessible here: <u>https://pempek.world/terms-and-conditions</u> by requesting Pempek to provide its products and services to you, or by continuing to use Pempek's products and services, you confirm your acceptance of the terms and conditions specified above. You agree and acknowledge that these terms form a legally binding agreement between you and Pempek. Pempek reserves the right to amend its terms and conditions at any time.

## LOZU1101 Pempek OBP-PLUS Processor Module CODESYS (with Fibre-optic CAN Bus)

### **CONNECTOR A69**

No.	Connector A69 28 (41) Burndy Female PIN	Name
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	Μ	DGI-12
13	Ν	DGI-13
14	Р	DGI-14
15	R	DGI-15
16	S	DGI-16
17	Т	OVDC
18	U	CAN 1-L1
19	V	CAN 1-L2
20	W	COLDFIRE UART RX-
21	Х	COLDFIRE UART RX+
22	Y	COLDFIRE UART TX-
23	Z	COLDFIRE UART TX+
24	a	CAN 2-L1
25	b	CAN 2-L2
26	С	RELAY IN
27	d	RELAY NC
28	е	RELAY NO



pempek made for mining

## 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: Flbre-optic with ST terminations
- **Connector 1**: Fibre ST Connector (2 connectors)
- **Connector 2:** Fibre ST Connector (2 connectors)
- Conductors: 2
- Cable Length: 0.8 metres
- **Pin Type:** ST Fibre Plugs
- Conductor Type: Multi-mode Fibre-optic
- Insulation Rating: N/A
- **Temperature Rating:** -40 to 85 C

Datasheet-L0ZU1101

© Pempek 1985 - 2024

www.pempek.world | sales@pempek.world | 3/13 Hoyle Ave Castle Hill NSW 2154 | +61 02 8853 4800

Pempek Systems Pty Ltd ACN 622 172 721 (Pempek) is the owner of all intellectual property rights subsisting in all of its products, software and hardware, as well as all product information contained in this document (including without limitation in respect of all copyright, designs and know-how). Your use of Pempek's products and intellectual property is strictly subject to: Pempek's Licence Terms and Conditions, which are accessible here: https://pempek.world/terms-and-conditions/#PempekIntellectualPropertyLicenceAgreement

Pempek's Product Terms and Conditions are accessible here: <u>https://pempek.world/terms-and-conditions</u> by requesting Pempek to provide its products and services to you, or by continuing to use Pempek's products and services, you confirm your acceptance of the terms and conditions specified above. You agree and acknowledge that these terms form a legally binding agreement between you and Pempek. Pempek reserves the right to amend its terms and conditions at any time.