L0ZU0101 Obelix Processor Module Telemetry and Automation

The L0ZU0101 Obelix Mining PLC Telemetry and Automation Processor (TAP) combines a standard Obelix automation platform with a dedicated machine telemetry processor.

This dual-processing architecture, provides segregated, high-performance management of both real-time machine automation and machine data collection.

A fully AS4871-compliant internal battery preserves parameter memory and real-time clock functionality when mains machine power is removed.

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).

The module also supports Pempek CAN Fibre ports (8 channels) for convenient, reliable control and monitoring of Obelix Mining PLC IS I/O modules.

One (1) CAN channels is shared with the Fibre ports.



- Module Type: Telemetry and Processor (TAP) Module
- 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)
- Operating Temperature: -20 to 70 C
- Inputs: 16 x Digital Inputs (24VDC)
- Outputs: 1 x C-Form Relay (110VAC / 8 A)
- Connector 1: Obelix A2
- (24VDC Input + CAN Bus A)
- Connector 2: Ethernet M12(WAN)
- Connector 3: Ethernet M12 (LAN)
- Connector 4: Obelix Data A68
- (CAN B,C,D, RS422, RS232)
- Connector 5: Obelix A69 (Digital Inputs, Relay Output)

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



Datasheet-L0ZU0101

© Pempek 1985 – 2022

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

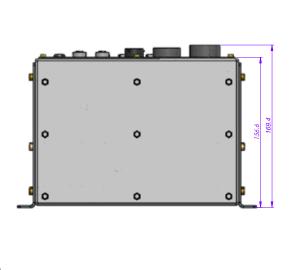
Pempek's Product Terms and Conditions are accessible here: <u>https://pempek.world/terms-and-conditions</u> By requesting Pempek to provide its products and services to you, or by continuing to use Pempek's products and services, you confirm your acceptance of the terms and conditions specified above. 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.





L0ZU0101 Obelix Processor Module Telemetry and Automation





Dimensions (mm)

CONNECTOR A68

© Pempek 1985 - 2022

No.	Connector A68 23 (32) Burndy Female PIN	Name
1	А	CANH1
2	В	CANL1
3	С	CANH2
4	D	CANL2
5	E	CANH3
6	F	CANL3
7	G	OVDC
8	Н	RXA-
9	J	RXA+
10	К	TXA-
11	L	TXA+
12	Μ	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-LOZU0101

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/subject.to: Pempek's Licence 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.

L0ZU0101 Obelix Processor Module Telemetry and Automation

CONNECTOR A69

No.	Connector A69 28 (41) Burndy Female PIN	Name
1	А	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	К	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-LOZU0101

© Pempek 1985 - 2022

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.