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Quad Differential Industrial Power Line Driver

MELVILLE, NY - LSI/CSI announces the availability of a new, short-circuit-proof Quad Differential Industrial Power Line Driver. The new IC, designated LS7272B, can operate up to 30V and have a selectable thermal shutdown feature.

The Data inputs are TTL/CMOS compatible and can also be driven up to the supply voltage VDD. The ENA input can be used to place all the outputs in a high impedance state. The OPD input is used to configure the outputs as push-pull drivers or open-drain drivers, where the outputs can be returned through external loads to a maximum voltage of VDD. LS7272B-20 does not have OPD pin and its outputs are always in push-pull configuration

An internal 5V regulated supply is used to power the logic and level converter blocks. The thermal shutdown block located in the center of the IC can be disabled by setting the ENA input, Pin 12, to a voltage between 7.5V and 12V.

Upon power-up, a Power-On-Reset (POR) circuit block forces all output drivers to the high-impedance state until the power supply voltage reaches a nominal 3.9V. Included in the POR circuit block is a hysteresis of 200mV such that if the power supply drops below 3.7V all output drivers are forced to the high-impedance state until the voltage rises above 3.9V. There is a built-in 5 μ s delay for disabling the output drivers should the power supply drop below 3.7V. The output drivers are immediately enabled when the voltage rises above 3.9V.

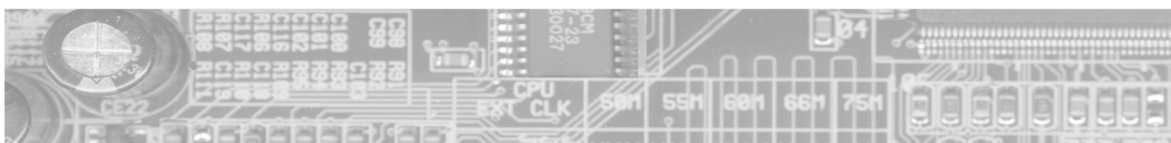
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Features:

- More feature-rich and cost-effective than the OL7272
- Pin for pin replaceable with the OL7272
- Push-Pull or Open-Drain output drivers
- Voltage Range: 4.5V – 30V (VDD – VSS)
- 1A peak dynamic Sink/Source output drive
- Operating frequency up to 2 MHz
- Thermal shutdown protection for output driver overload
- Enable input with Thermal Shutdown disconnect feature
- Outputs RS422A compatible
- Inputs CMOS/TTL compatible with hysteresis
- Output drivers fully connected or high-impedance state

Availability and Pricing

For more information availability and pricing please visit

email: sales.europe@macnica.com.

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About LSI/CSI

LSI Computer Systems, Inc. (LSI/CSI) began operations as the world's first fabless semiconductor company in 1969. Since its inception, LSI/CSI has been a leader in the design and production of affordable full custom and standard mixed-signal, digital and analog integrated circuits.

Using a broad array of process technologies, LSI/CSI has produced ICs that extend from the consumer and industrial marketplace to military and aerospace applications.

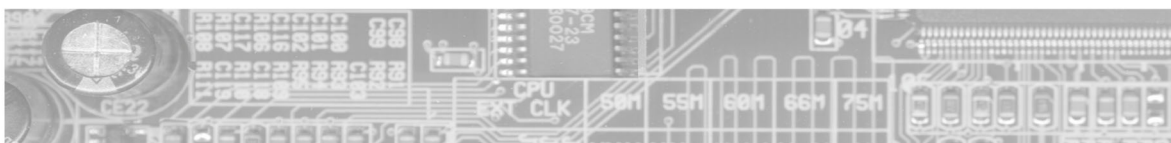
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The company's proven expertise and strong reputation have made LSI/CSI the IC provider of choice for leading manufacturers in a broad range of industries.

For more information, please visit <https://lsicsi.com/>.

About Macnica ATD Europe GmbH, (former Macnica GmbH)

Macnica's ATD Europe GmbH, (former Macnica GmbH), was originally established in the UK in 2006, and moved to Germany in July 2008, to increase efficacy of its service for European customers.

By its acquisition of the Munich based company Scantec Mikroelektronik in 2014 Macnica Europe formed a powerful semiconductor distribution with headquarter in Ingolstadt and offices in Munich, Regensburg, Milton Keynes (UK) and Warsaw offering an attractive and competitive portfolio of highly sophisticated devices.

Macnica provides end to end support from design-in to production through its global service network to its customers, regardless of the final destination of the product shipment to customers' manufacturing locations.

About Macnica ATD Europe S.A.S.

Founded in 1990 as ATD Electronique, Macnica ATD Europe headquarter offers innovative components dedicated to imaging applications for the European market. Its product portfolio includes: image sensors (CCD, CMOS, InGaAs, Thermal etc.), optics, interface circuits, FPGA & IPs, imaging processors, cables and OLED microdisplays.

It also covers development tools and design services enabling fast and efficient realization of new high-performance camera systems for markets such as machine vision, medical, life sciences, surveillance, automotive and others. After the acquisition of the company by Macnica Inc. as of October 1, 2020 the company operates under the name Macnica ATD Europe.

About Macnica, Inc.

Macnica was established in 1972 as a semiconductor distribution company headquartered in Yokohama, Japan, and has over 85 sales offices worldwide in eastern Asia, Europe and the USA. Total number of employees is over 3,500 and its consolidated revenue for fiscal 2020 was approximately US\$ 5.5 B.

Macnica is famous for having an excellent engineering team of more than 900 application support engineers, IC designers and software developers with strong focus on providing technical support for its customers including custom design services. Macnica is continuing to extend its presence globally by having successful partners in strategic areas in the electronics market.

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