Press RELEASES

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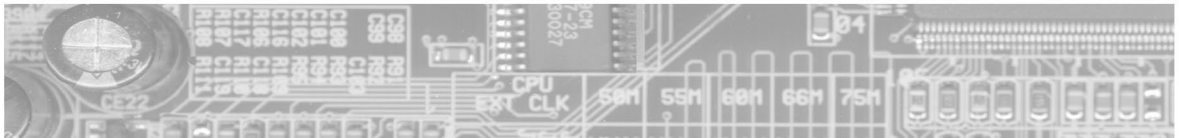
IO-Link Device Transceiver for Sensor Applications

Tokyo, Japan, August 29th, 2024 — Nisshinbo Micro Devices, a leader in innovative electronic solutions, distributed by Macnica ATD Europe, proudly announces the launch of the ND1160 IO-Link Device Transceiver, designed to meet the increasing demands of modern industrial automation and sensor applications. It offers cutting-edge features designed to meet the growing demand for efficient sensor applications by providing an ultra-compact and simple solution.

The IO-Link transceiver is fully compliant with IO-Link communication standards, supporting the Com1 to Com3 data rates, offering a versatile solution for a wide range of industrial sensors and actuators, programmable logic controllers and light curtain applications. Its ability to configure high-side, low-side, and push-pull output operations, controlled by two specific inputs, ensures compatibility across various industrial platforms, providing customers with flexibility in system design.

The ND1160 is designed with simplicity in mind and includes the transceiver functions only, without any complementary circuits, offering a compact solution for designers looking for the integration of IO-Link functionality into their systems without complexity. With a wide operating voltage range of 8.5V to 36V, and an output current of 200mA, it is sufficient to deliver reliable performance across a range of environments. It is equipped with several protection circuits including UVLO, overcurrent protection, thermal shutdown, and reverse polarity protection, ensuring robust operational safety and durability. Additionally, Wake and Fault flag signal outputs are present, as well as a Receiver output to establish proper communication to the MCU.

One has an option to select between the regular DFN3030-8-GG package and ultra-compact version in WLCSP-12-ZA1 (under development), the latter reduces the PCB



mounting area by 55.8%. This miniaturization makes the transceiver well suited for even the smallest IO-Link enabled sensors.

Availability and Pricing

It is available for purchase now. More Information about availability, samples and pricing, please visit email: sales.europe@macnica.com.

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About Nisshinbo Micro Devices Inc.:

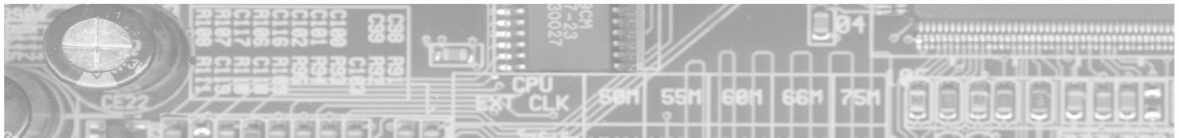
Established in January 2022, Nisshinbo Micro Devices Inc. is a merger of the former companies Ricoh Electronic Devices Co, Ltd., and New Japan Radio Co, Ltd, both members of the Nisshinbo Group.

The history of the two companies goes back to 1959, resulting in more than 60 years of experience in the electronics industry. Today, it is one of the leading global suppliers of advanced analogue products. Its portfolio offers a comprehensive range of ICs for Power Management, Supervisory, Operational Amplifiers, Battery Management, RF, Audio & Video, Optoelectronic devices, Motor drivers to name a few. These products enable electronics engineers to design advanced applications for consumer, industrial and automotive markets.

The company is headquartered in Tokyo, Japan, and has development, sales, and manufacturing facilities across the country. In addition, it has regional sales and support offices in North America, Europe, and Asia. For more information, please visit our website https://www.nisshinbo-microdevices.co.jp/en/.

About Macnica ATD Europe 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 it's 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 3,900 and its consolidated revenue for fiscal 2021 was approximately US$ 7.6 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.

More information about Macnica: https://www.macnica.com/global/en/home.html.

