Nisshinbo's NT1821 & NT1822: High Isolation SPDT Switches for Wi-Fi 7 and Advanced Wireless Networks

Chatou/France, 14 January 2025. Macnica ATD Europe, a valued distribution partner of Nisshinbo, proudly announces the availability of the NT1821 and NT1822 High Isolation SPDT Switches.

Designed to support the evolving needs of Wi-Fi 7 infrastructure and other wireless communication systems, these advanced switches combine high isolation and low insertion loss over a wide frequency range, delivering exceptional performance in compact form factors.

The NT1821 is a high-performance SPDT (Single-Pole Double-Throw) switch tailored for wireless communication systems, meeting the rigorous demands of Wi-Fi 7. Operating from 1.0 GHz to 7.125 GHz, it delivers superior isolation and low insertion loss, ensuring efficient performance for advanced networks.

Key functions include transmit/receive and antenna switching, supported by an operating voltage range of 1.6 V to 5.0 V and a control voltage as low as 1.2 V. With high linearity and a typical P-1dB of +31 dBm, it ensures reliable signal integrity.

Designed with flexibility in mind, the NT1821 suits a wide range of applications, including Wi-Fi 802.11a/b/g/n/ac/ax/be, smartphones, access points, and Wi-Fi modules.

Integrated DC blocking capacitors simplify design and save PCB space, while low current draw (20 µA) enhances energy efficiency. It maintains excellent isolation (up

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to 42 dB) and reliable performance across its frequency range, even in extreme temperatures from -40°C to +105°C.

Packaged in a compact 1.0 × 1.0 mm DFN1010-6-GV form, the NT1821 optimizes PCB space while ensuring superior performance in devices like smartphones, access points, and Wi-Fi modules.

Its MSL1 moisture sensitivity level ensures robust handling without special precautions. RoHS compliant and halogen-free, the NT1821 meets international environmental standards, making it a sustainable choice for high-performance wireless solutions.

Macnica ATD Europe provides comprehensive technical support for the Nisshinbo NT1821 and NT1822 High Isolation SPDT Switches, now available for purchase, ensuring seamless integration and optimal performance for your wireless communication systems.

About Macnica ATD Europe

Macnica is a trusted technology solutions partner, empowering the world's leading businesses to succeed in the future. Macnica's products, services, and innovations are crafted to future-proof organizations by continually pushing the boundaries of what is possible.

Bold collaboration with partners and customers drives their products and services to new levels of achievement. By accelerating digital transformation, Macnica helps ignite exponential growth in technology, delivering forward-looking value that influences businesses, economies, society, and the planet.

Together with global partners, Macnica leverages the latest advancements in semiconductors, secure networks, and artificial intelligence to address tomorrow's challenges.

Macnica ATD Europe, a subsidiary of Macnica Inc., operates across Europe, with offices in France (Chatou), Germany (Munich, Ingolstadt, Regensburg), and the UK (Milton Keynes), providing expertise and innovative solutions to this dynamic region.

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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.

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