



61



Flexible lithium-ion batteries (page 35)



41

**DEPARTMENTS**

	AEI NEWS	8
	BUSINESS STRATEGY	54
	PRODUCT NEWS	73

ASIA ELECTRONICS INDUSTRY (ISSN 1342-422X) is published monthly by Dempa Publications, Inc., 1-11-15 Higashi Gotanda, Shinagawa-ku, Tokyo 141-8715, Japan Tel: +81-3-3445-6111 Fax: +81-3-3447-4666. Editorial e-mail: may@dempa.co.jp;

Subscription e-mail: circulationmanila@dempa.co.jp. The magazine is distributed free to qualified subscribers in ASEAN countries (Thailand, Indonesia, The Philippines, Malaysia, Singapore, Brunei, Vietnam, Myanmar, Cambodia and Laos), as well as Korea, Taiwan and Hong Kong.

Paid air mail subscription is available to non-qualified subscribers in the Asian and Pacific regions for US\$150 per year and US\$260 for two years. For other areas, air mail subscription fees are US\$160 per year and US\$280 for two years. Paid subscription is accepted at <http://aei.dempa.net/paidsub/subscription.html>

Send address corrections to Dempa Publications, Inc., c/o Quantum Solutions (HK) Ltd, Unit 3-6, G/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon, Hong Kong

**TAIWAN:** International Dempa Trade Co. Ltd., 7F, No. 34, Sec. 1, Nanjing East Road., Taipei, Taiwan 104 Tel: +886-2-2563 4595 Fax: +886-2-2567-5559  
**KOREA:** Dempa Publications, Seoul Office, Masters Tower, Room 1404, 553 Dohwa-dong, Mapo-ku, Seoul, Korea, 121-040, Tel: +82-2-714-2983 Fax: +82-2-714-2984  
**PHILIPPINES:** Dempa Publications, Inc. - Regional Headquarters, Herrera Tower, Room 2510, 98 V.A. Rufino Street, Salcedo Village, Makati City, Philippines, Tel: +63-2-845-0906 Fax: +63-2-845-1829

President & Publisher: Tetsuo Hirayama  
 Copyright © 2017 by Dempa Publications, Inc.

All rights reserved. The contents of this magazine may not be reproduced in whole or in part without the prior permission of the copyright owner. Printed in Hong Kong.

**INDUSTRY REPORT**

Japanese Electronic Parts Makers Jump on M&A Bandwagon	10
--	----

**INDUSTRY HIGHLIGHT**

Thailand 4.0 Sets Stage for New Round of Economic Growth	12
--	----

**SPECIAL REPORT**

**Next-Generation Radio Systems**

Xilinx Architecture Spells Breakthrough for 5G Wireless	16
Qualcomm Flexes Muscle to Accelerate 5G New Radio	20

**Computex Taipei Special**

Semiconductor Technologies to Drive Future ICT Megatrend	23
Power Semiconductors Shape up for Future Vehicles	26
OLED Poises to Rival LCD in TVs, Mobile Devices Markets	28
Energy Harvesting Technology to Propel IoT Applications	30
Data Explosion Spurs Innovations in Memory Chip Technologies	32
FHE Comes to Fore as Practical Manufacturing Method	34
Power-Saving Image Processor Zooms in on High-Definition Images	37
Intelligent Lithium-Ion Battery Secures Drones	38
EV Charging, Car Electronics Solutions Lead Delta to E-Mobility	40

**TECH FOCUS**

High-Functional Connectors Target Micro-Coaxial Cables	42
RFID Products Show Potential in Industrial Uses	44
Standards-Compliant Devices Gear up for Self-Driving Cars	48
Solder Paste for Reflow Adheres to Power Devices	51

**ZOOM-IN**

Large-Capacitance MLCC Development Gathers Momentum	56
EnOcean Alliance Puts ORCA Standard to Commercial Use	57

**MANUFACTURING FRONT**

	58
--	----

**SHOW REPORT**

	60
--	----

**SMT's: IN REVIEW**

	67
--	----

**INDUSTRY HIGHLIGHT**

Fuji Machine Mfg. Puts up Thailand Showroom, Bolsters Support System	70
--	----