

flex[®]

Partner presentation

Quarter 3/2020





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About us

ISO 9001 recertification process

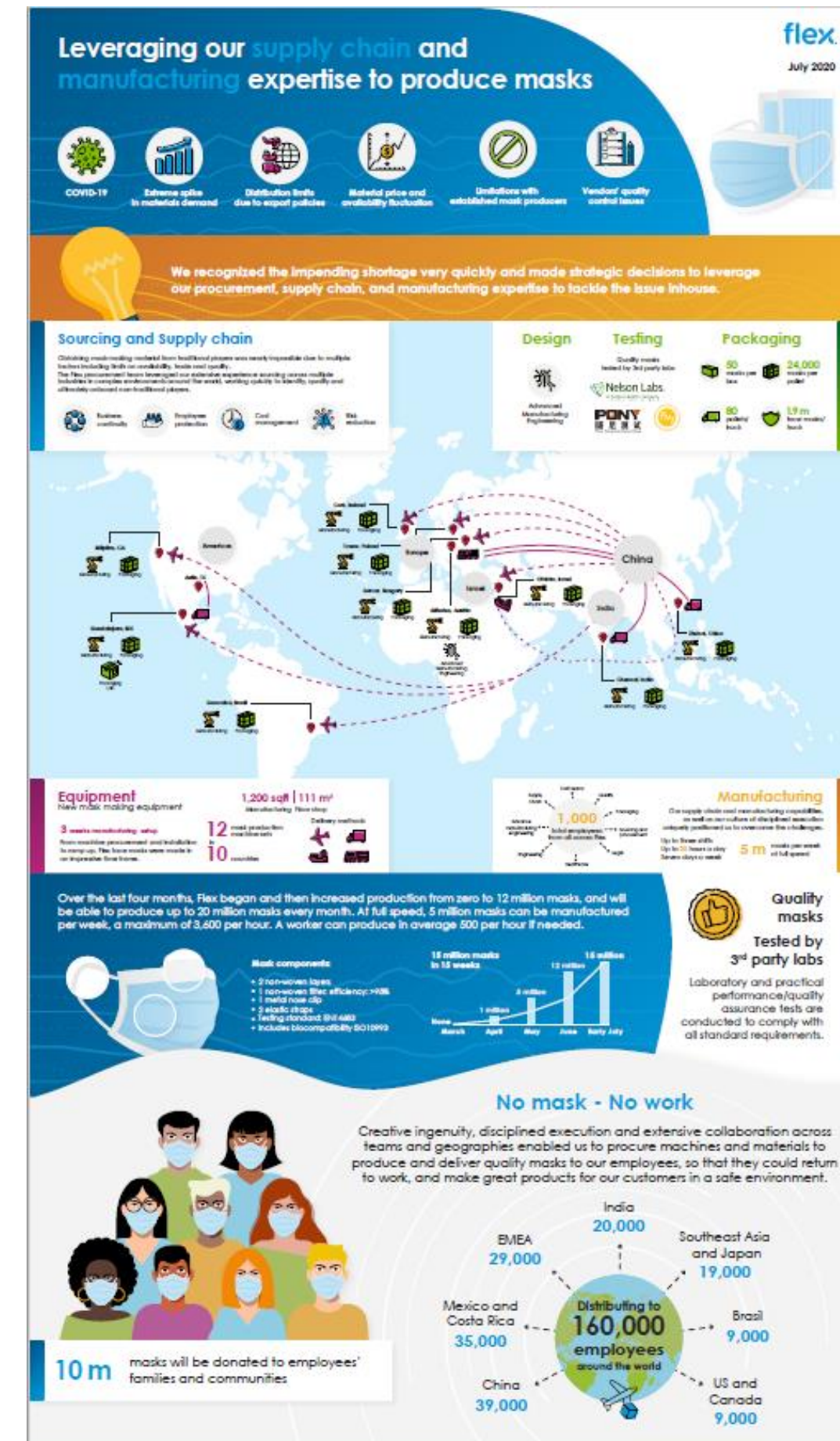
- Flex corporate requires own ISO certifications for all independent entities
- Flex Power Modules Sweden is preparing an ISO recertification for R&D, PM and Sales scheduled for October 2020
- Flex Power Modules Shanghai was ISO certified in the area of production in 2019 and will be recertified in operations, R&D, PM and Sales in October 2020



About us • Create the extraordinary

Flex@Corona

- Consequences of Corona have become financially visible within certain departments in Flex
- Flex Power Modules has achieved a good results in Q2 and Q3/2020 with strong development in datacom and telecom segments
- Flex corporate has established many initiatives such as **production of masks** overcoming the challenges of a short time frame, no experience and no equipment
- Result: within 22 weeks 30 million masks produced
- For info is found on the [web](#)





Product information

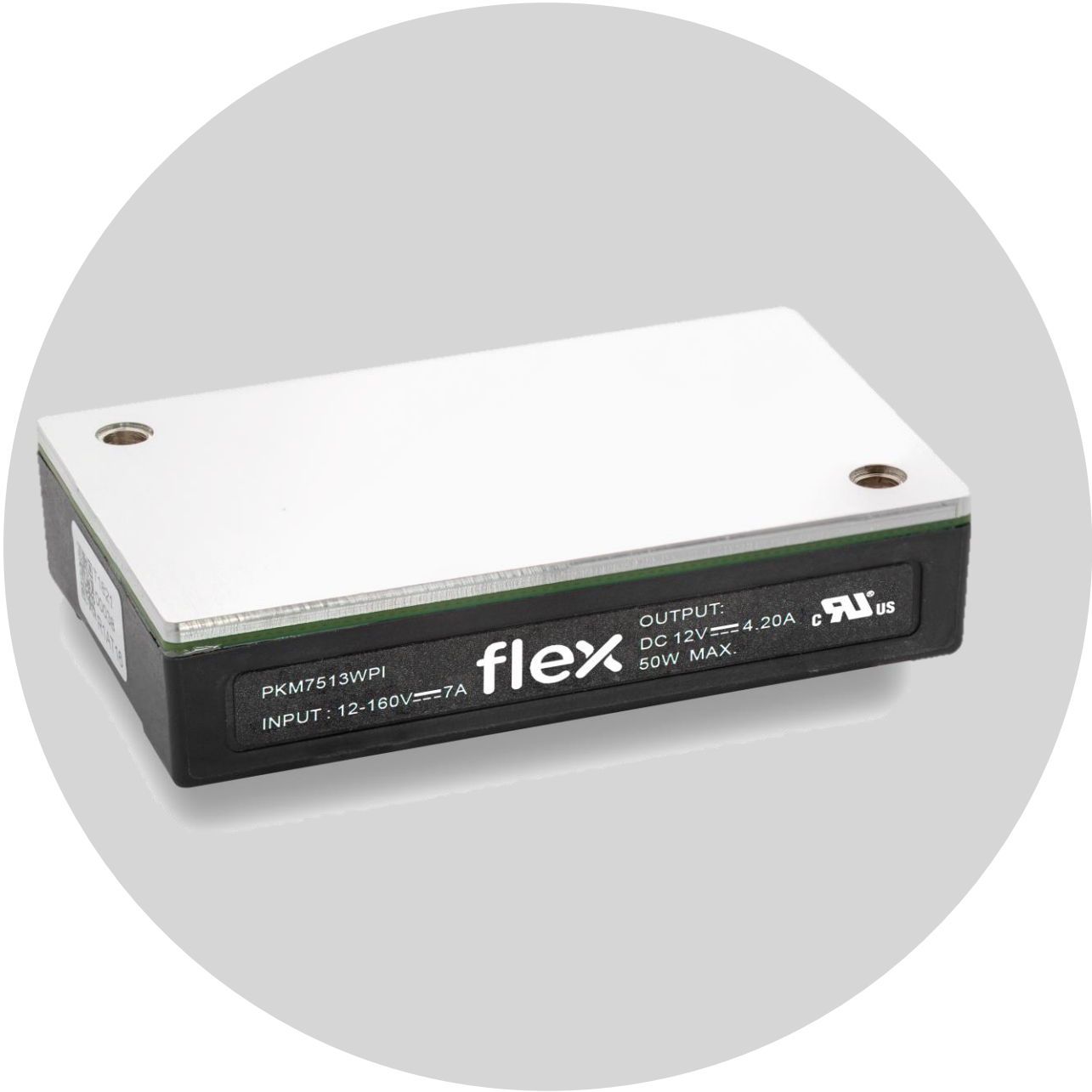
Recently released or upcoming
new products

Refresh: PKM7500W and PKM7100W

Key features:

- Ultra-wide input voltage range
- Fully encapsulated quarter brick converter
- Excellent price/performance ratio

	PKM7500W	PKM7100W
Mechanical		
Dimensions	57.91 x 36.8 x 12.7 mm	
Electrical specs		
Input voltage range	12 – 160 V	14-160 V
Output voltage	5/12/13.8/15/24/48/54 V	
Output power	50 W	100 W
Efficiency	Up to 90 %	
Isolation	4000 V	
Other features		
Release date	Released	Released August/20



BMR683 • RFPA

Key features:

- Digital quarter brick DC/DC up to 500 W P_{out}
- Designed for high power LDMOS and GAN RFPA applications
- High efficiency with 95.5%

BMR683	
Mechanical	
Dimensions	58.4 * 36.8 * 12.7mm (2.3 * 1.45 * 0.5 in)
Electrical specs	
Input voltage range	36 - 60V
Output voltage	18 – 32 V
Output power/current	500W / 17.9A
Efficiency	95.5 %
Isolation	1500 V
Other features	
Release date	September 2020



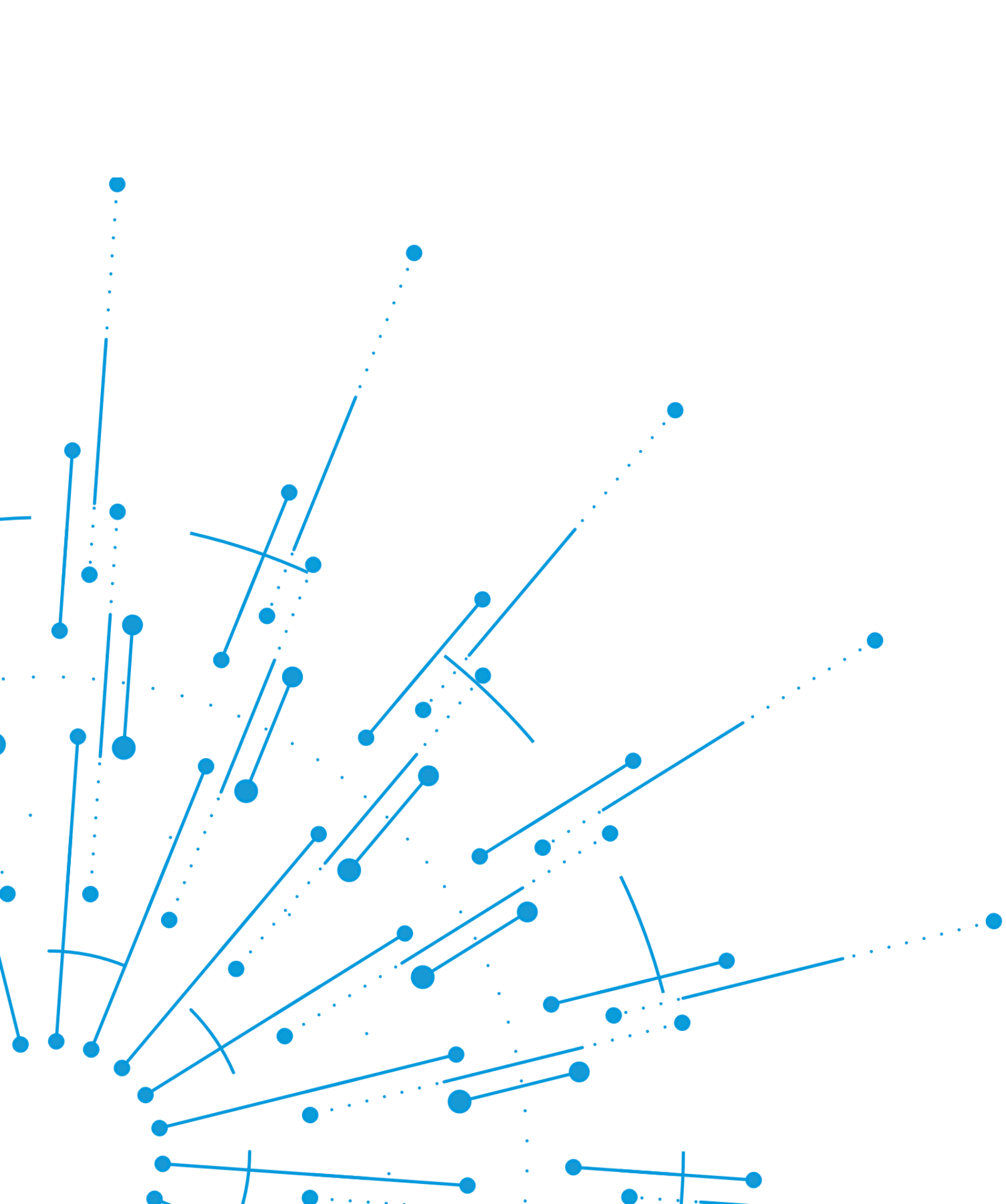
BMR491 • digital high-power DC/DC

Key features:

- Digital quarter brick DC/DC
- Up to 2250 W peak power
- 48-60V & 40-60V input variants
- 12V nominal output
- High efficiency up to 97.6%

BMR491		
Regulation	HRR	Fixed output regulation
Dimensions	58.4 * 36.8 * 12.7mm (2.3 * 1.45 * 0.5 in)	
Electrical specs		
Input voltage range	48 – 60 V	40 – 60 V
Output voltage	12 V	12 V
Output power/peak power	1300 W / 1850 W	1300 W
Efficiency	97. 6 % half load, Vin 48 V	97. 4 % half load, Vin 48 V
Isolation	1500 V	1500 V
Other features		
Release date	Q4 2020	Q4 2020





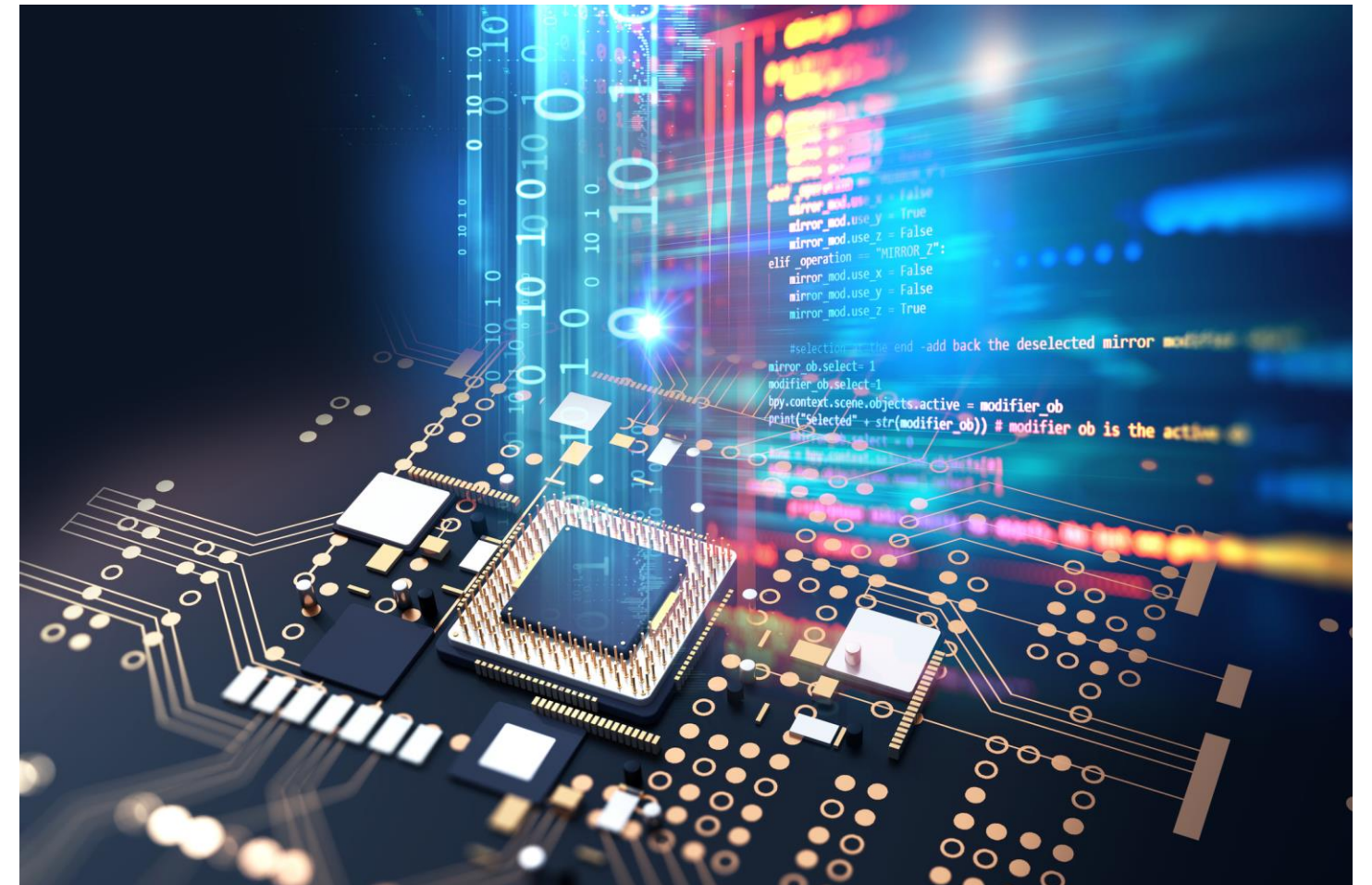
Software

Flex Power Designer our free of charge software tool to design, monitor and improve power systems.

Flex Power Designer release 4.0.1

Key features:

- **Reference design for FPGAs**
 - Importing load data from Xilinx Power Estimator
 - System optimization for finding products and optimizing bus voltage
 - Droop compensation and include accuracy for V_{out} in Loop Compensator
- **Support for BMR491**
- **Support for PMU**



Short intro video for FPD available on website

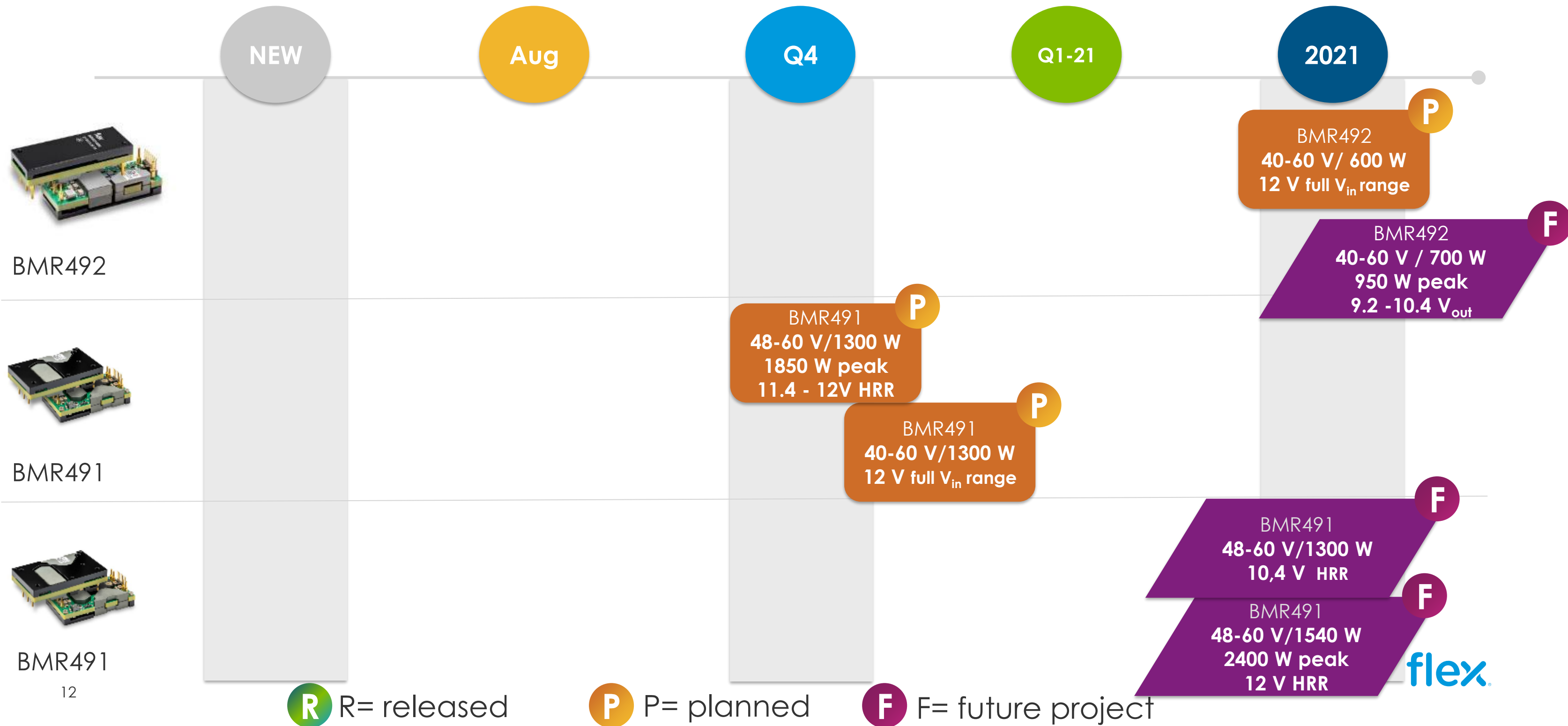
[Click here](#)



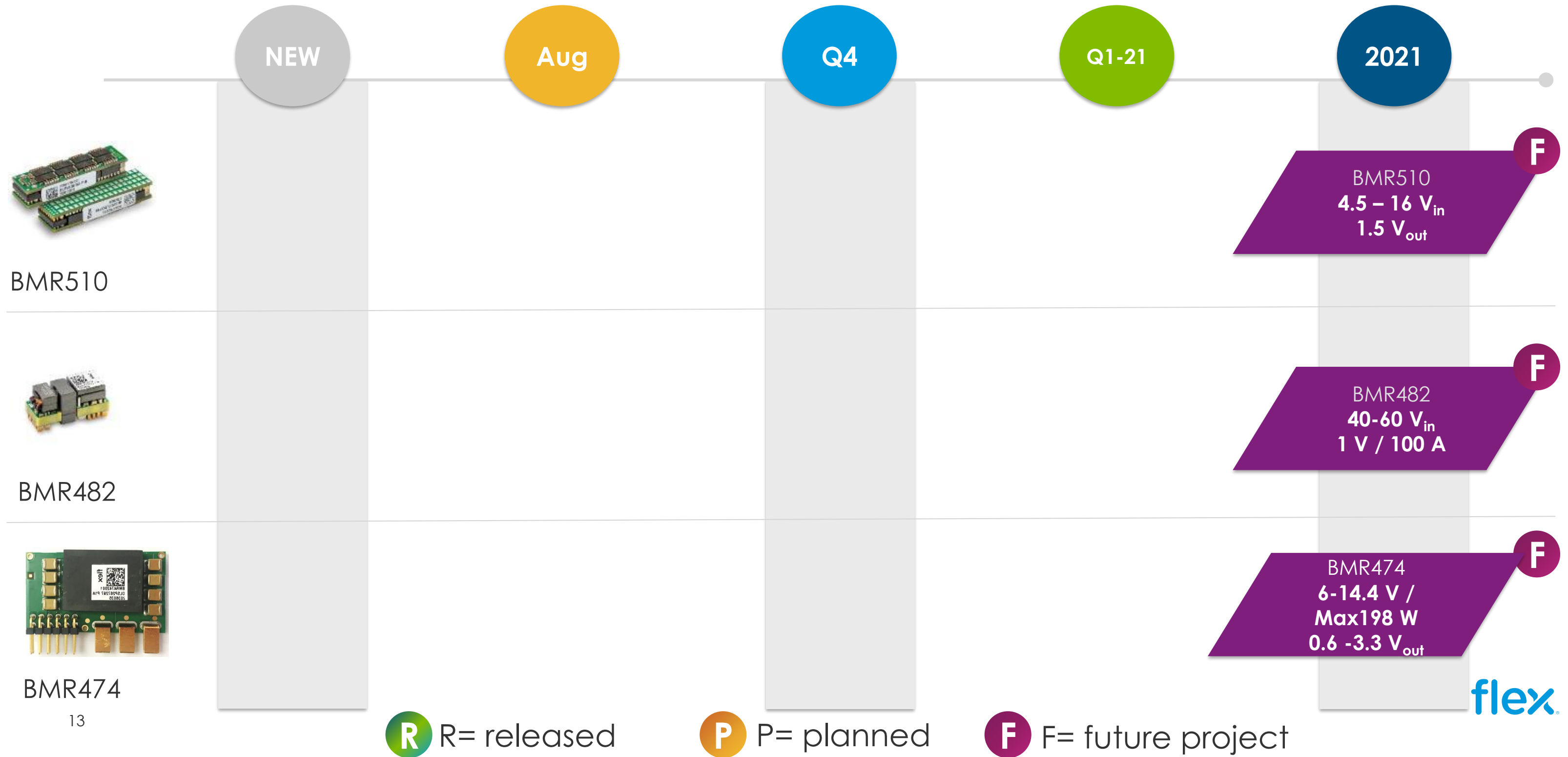
Roadmap

Product roadmap monthly updated
and available from your Sales
contact

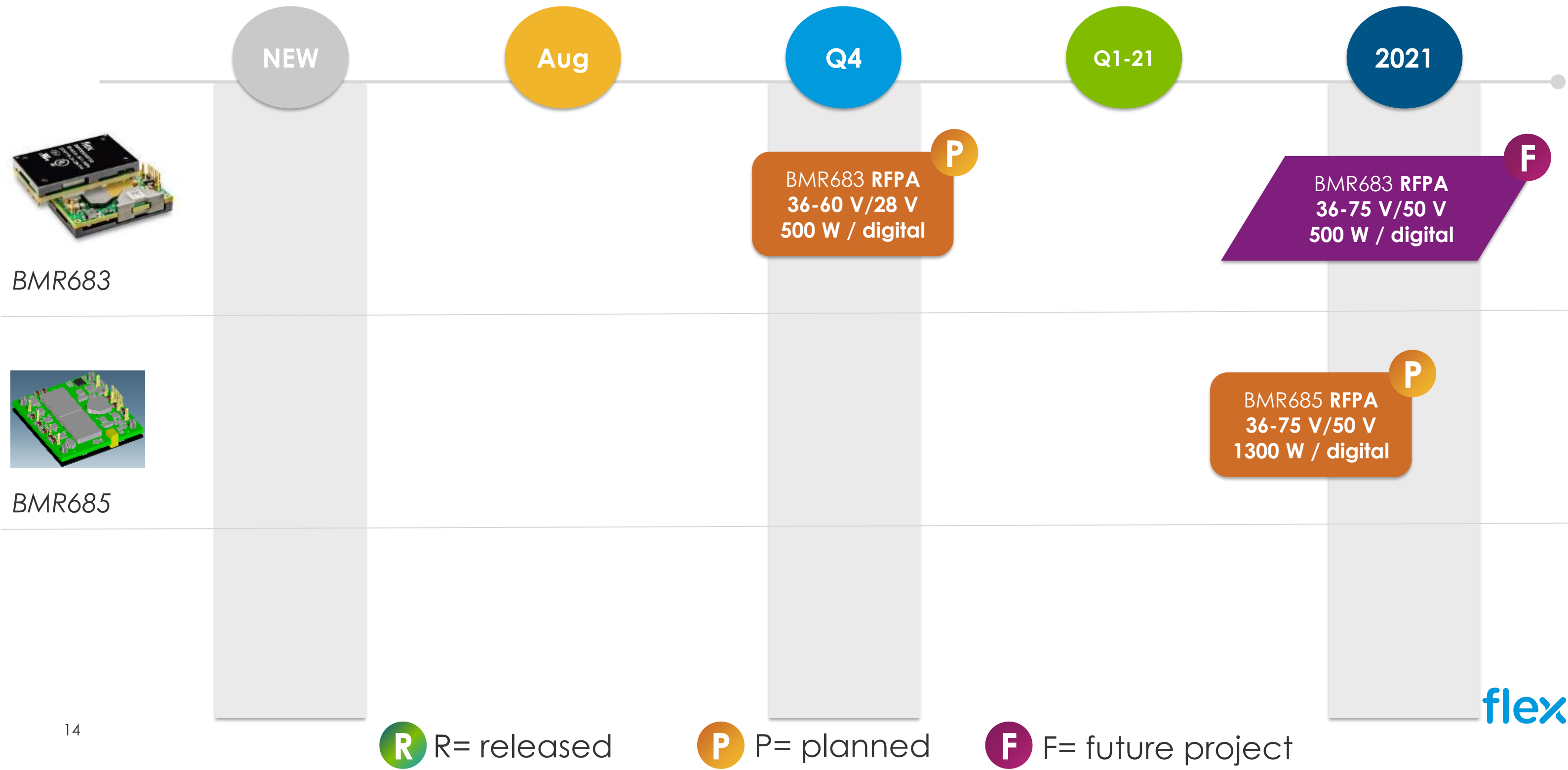
Roadmap datacom



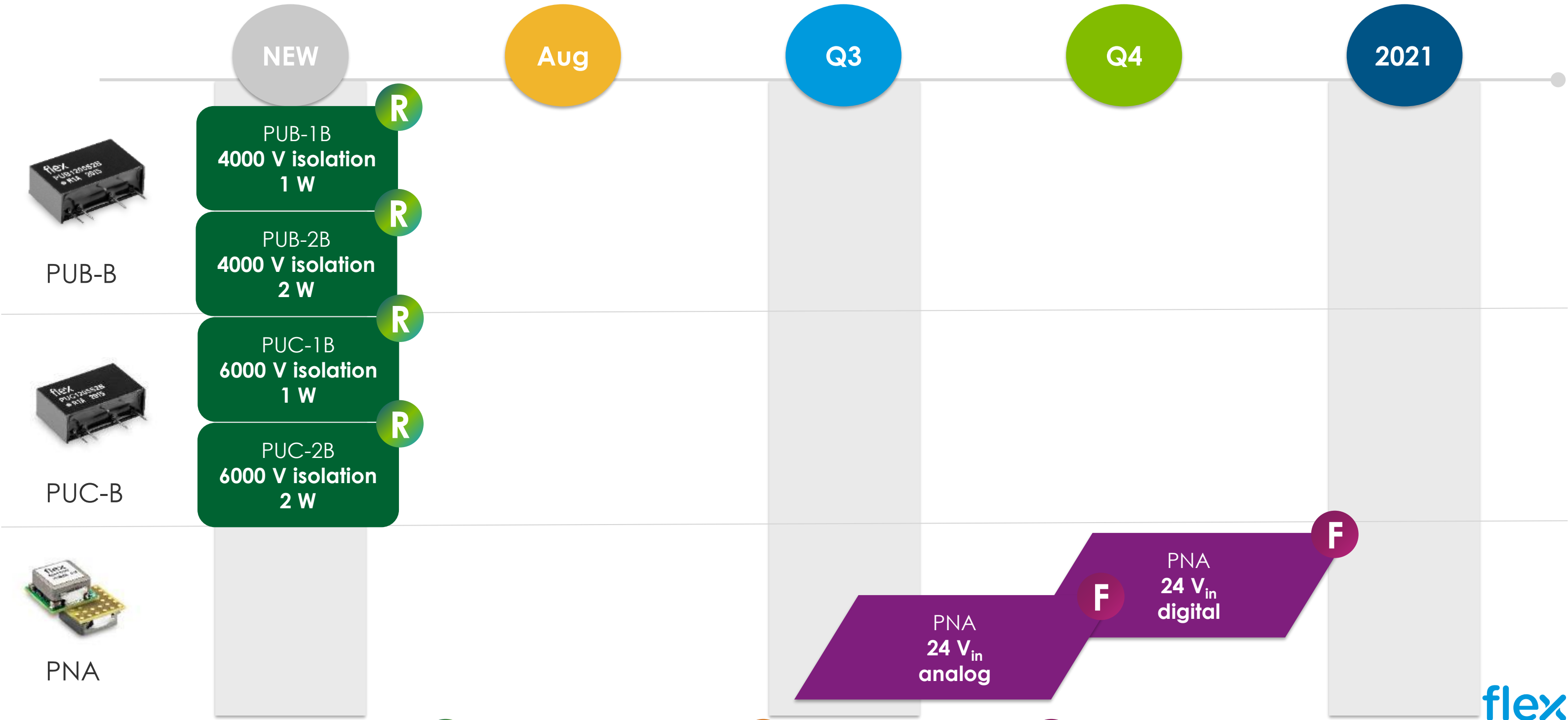
Roadmap datacom



Roadmap telecom



Roadmap industrial & transportation



R R= released **P** P= planned **F** F= future project



Flex Power Designer tool

Release 4.0

Date: Released

Features:

- Support for BMR491
- Reference design for FPGAs
- Interactive technical specification
- Xilinx load based design.

Release 4.1

Date: January 2021

Features:

- Support for BMR492 (Shasta controller)
- Xilinx extended support
- Thermal model for BMR491 and BMR492

Release 4.2

Date: August 2021

Features:

- Switched cap module (BMR310) support



Miscellaneous

Information about events, new brochures etc.

Miscellaneous

Collateral:

[Selection Guide](#) Q3/Q4 2020 available on our website

Webinar:

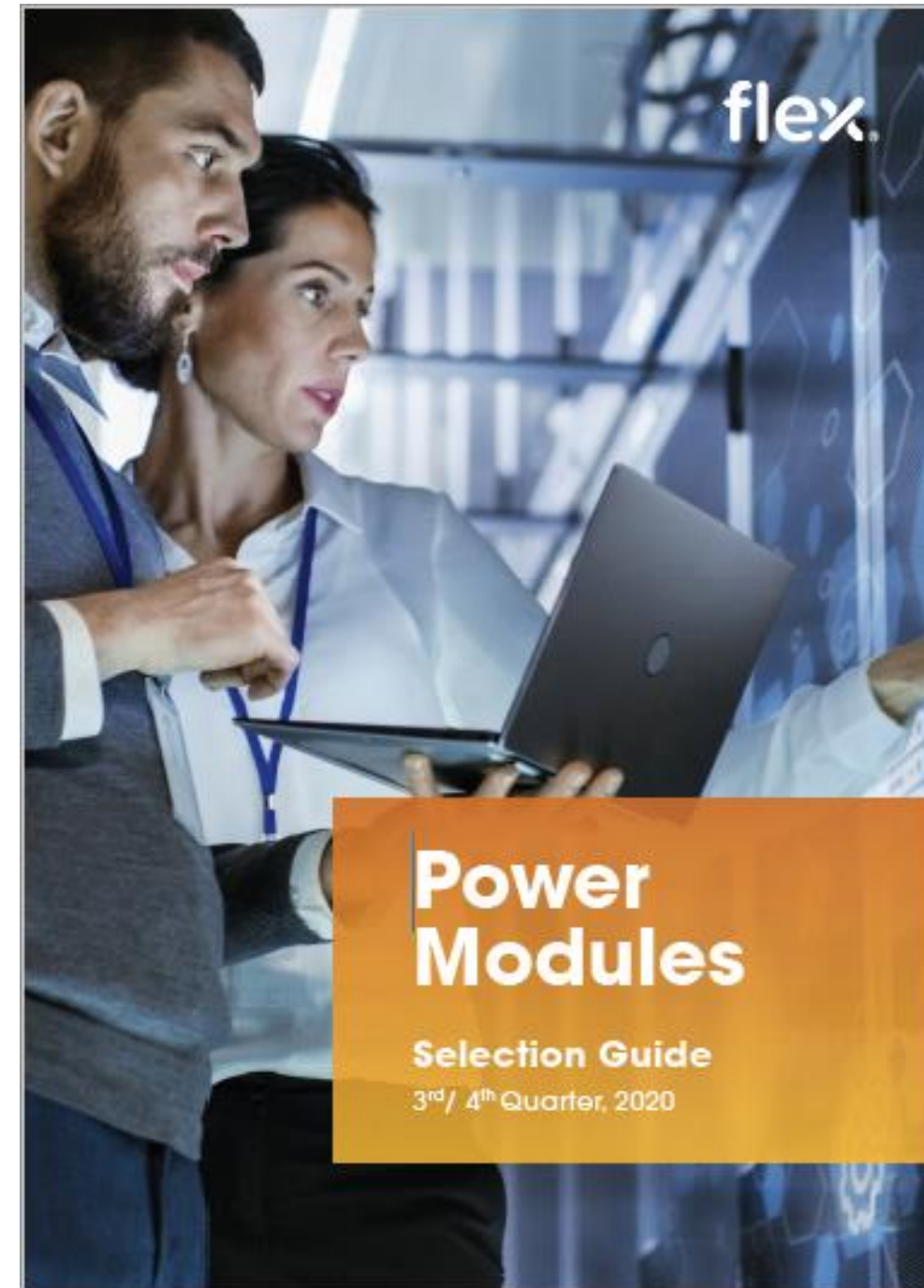
Topic: FPD release 4.0 scheduled for 5th November – more info soon on our web

Events:

OCP Global Summit, San Jose 3-4.03.2021

Innotrans, Berlin, 27-30.04.2021

Electronica, Shanghai, 14-16.04.2021



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Powering your
innovation

