

flex®

# Partner presentation

Quarter 3/2020



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# About us

## ISO 9001 recertification process

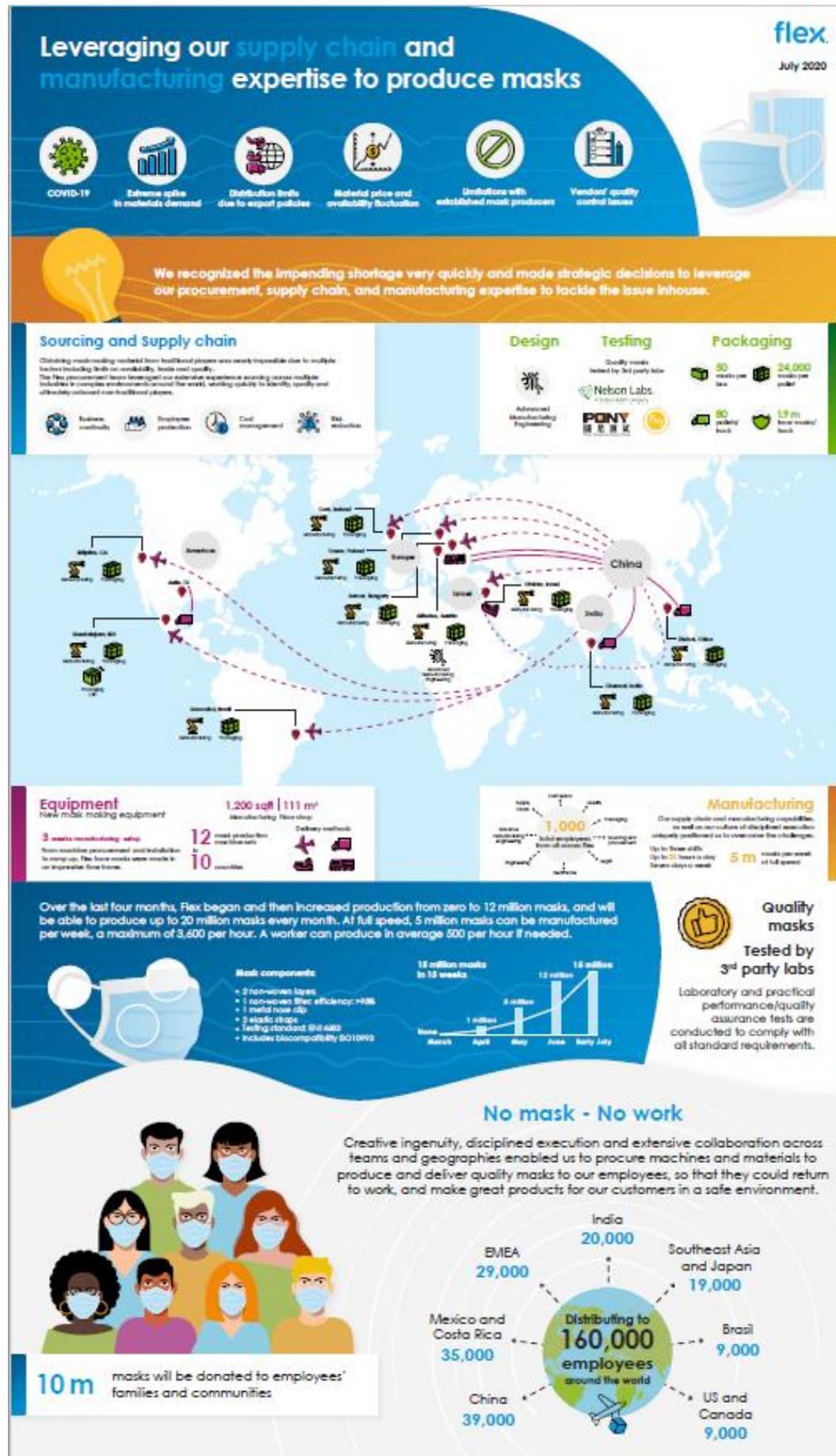
- Flex corporate requires own ISO certifications for all independent entities
- Flex Power Modules Sweden is preparing an ISO recertification for R&D, PM and Sales scheduled for October 2020
- Flex Power Modules Shanghai was ISO certified in the area of production in 2019 and will be recertified in operations,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

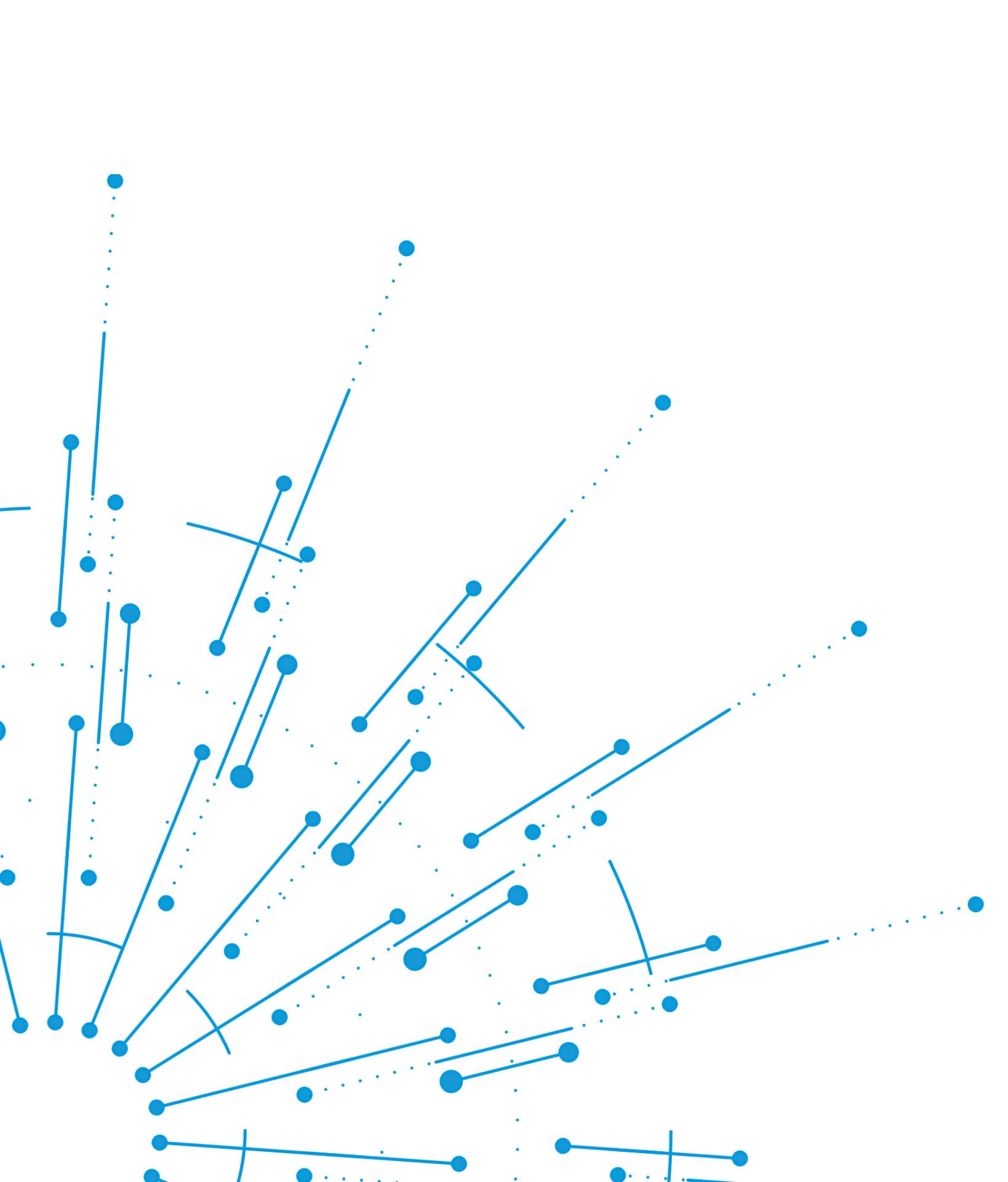


# About us • Create the extraordinary

## 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

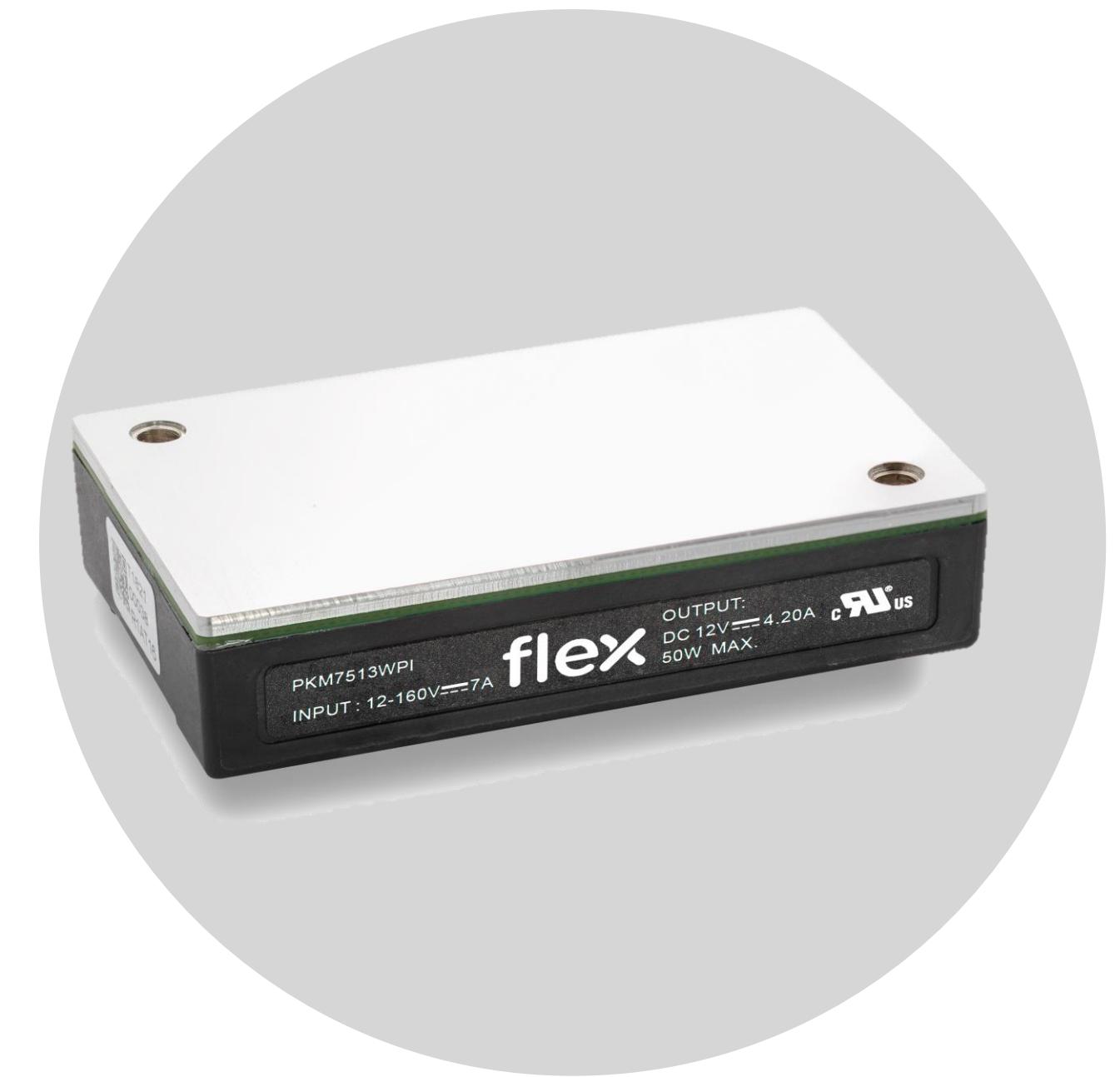
Recently released or upcoming  
new products

# Refresh: PKM7500W and PKM7100W

## Key features:

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

	PKM7500W	PKM7100W
<b>Mechanical</b>		
Dimensions	57.91 x 36.8 x 12.7 mm	
<b>Electrical specs</b>		
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
<b>Other features</b>		
Release date	Released	Released August/20



RAILWAY

INDUSTRIAL

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



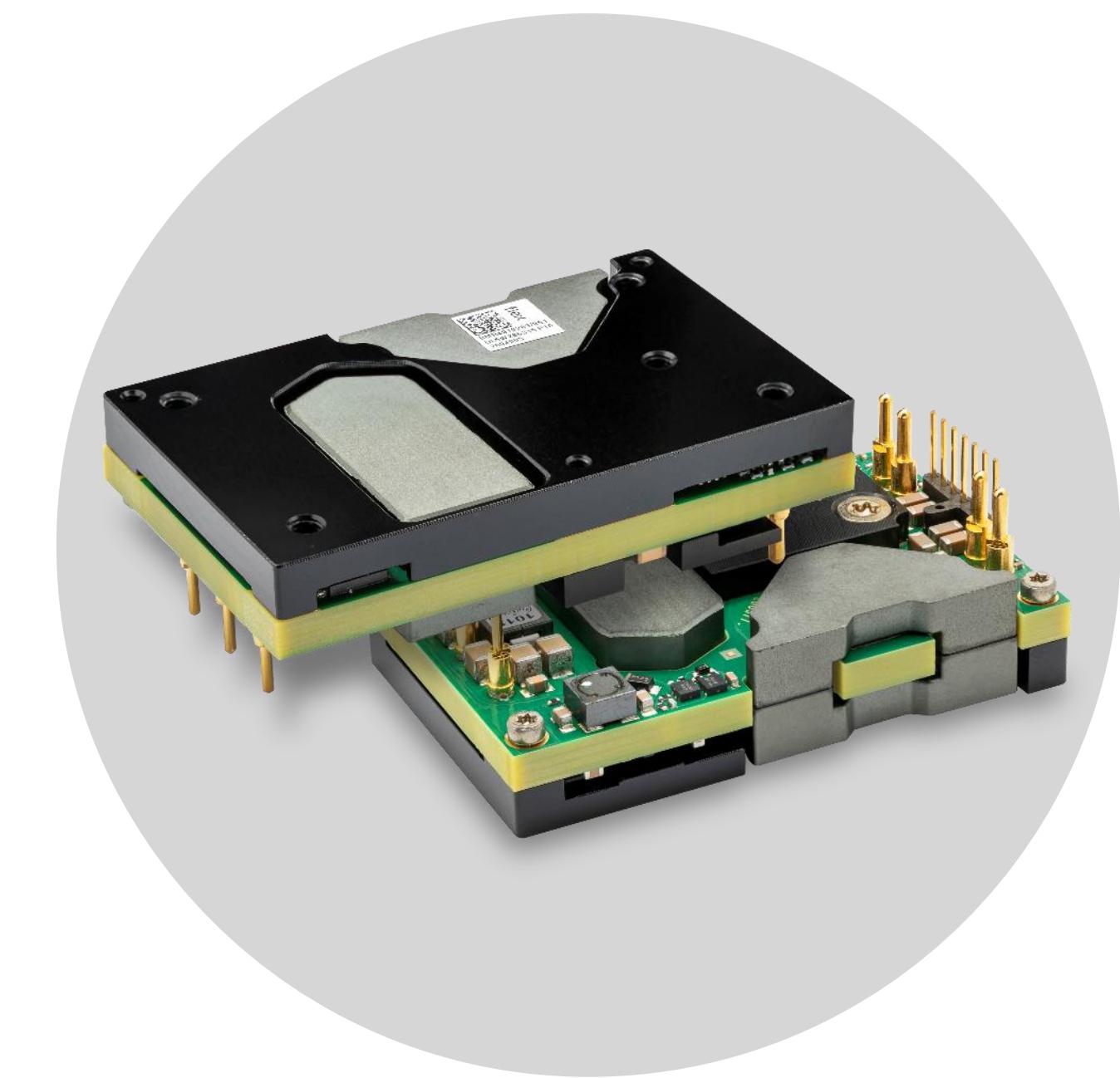
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# BMR491 • digital high-power DC/DC

## 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



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# Software

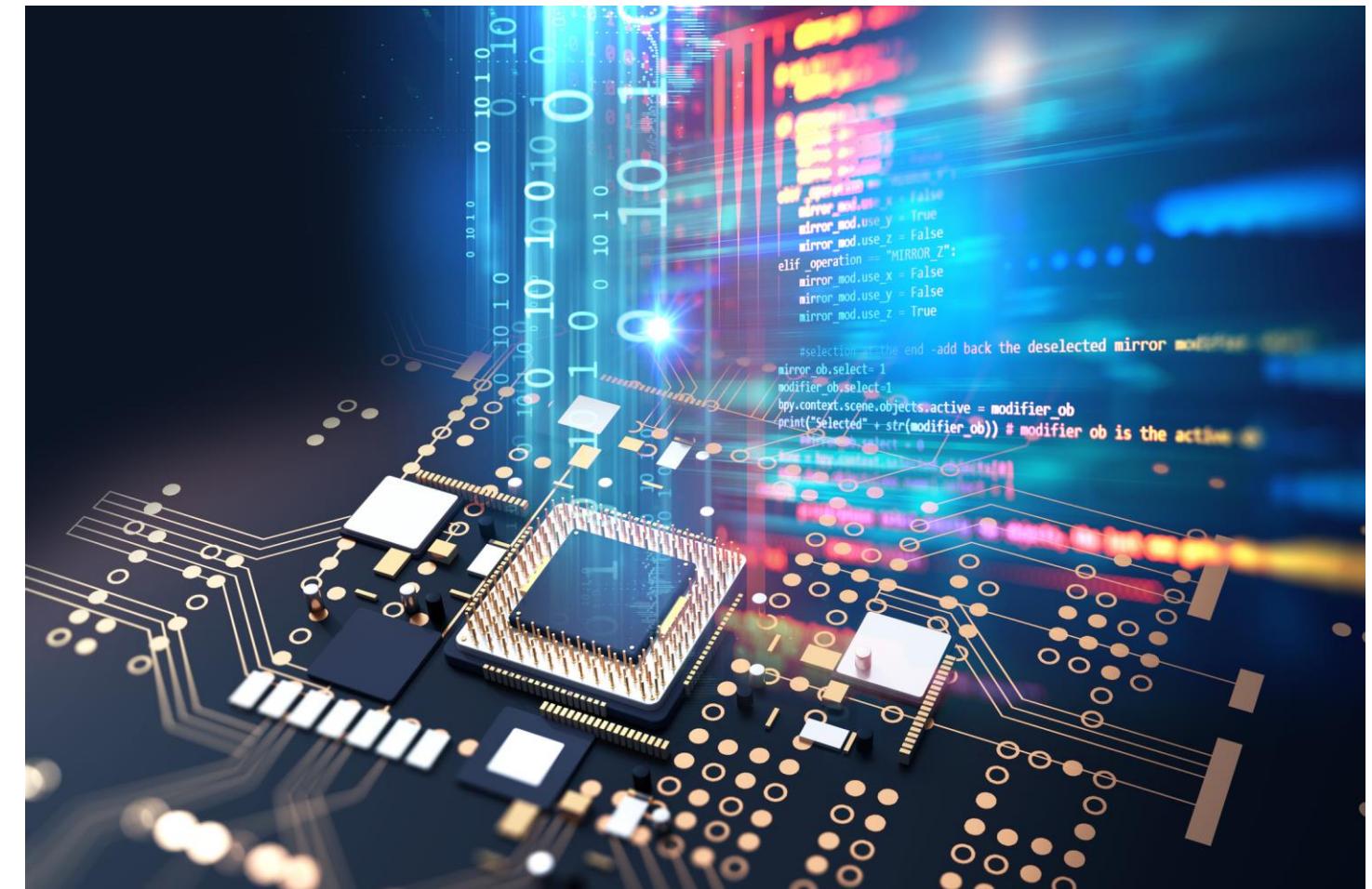
Flex Power Designer our free of charge software tool to design, monitor and improve power systems.

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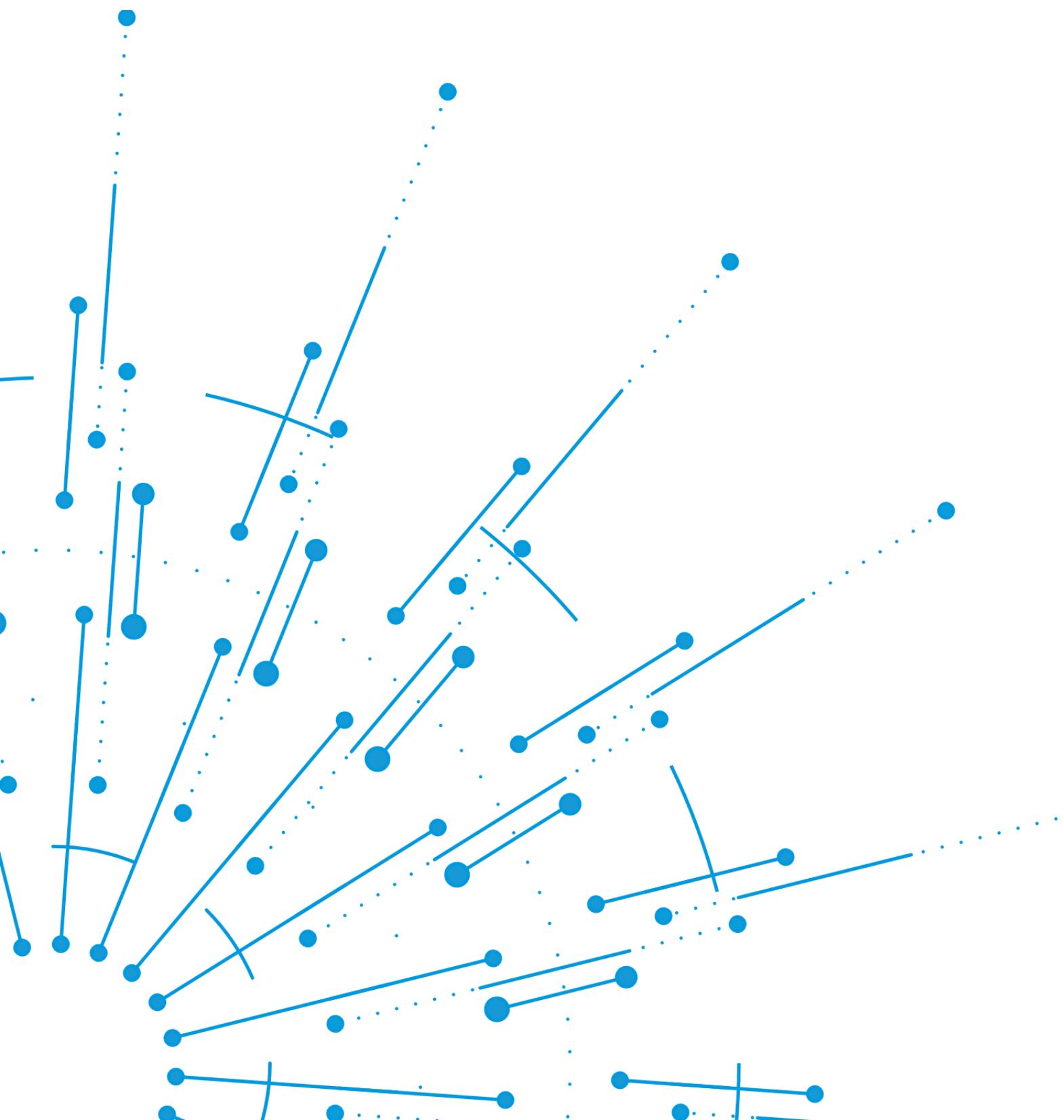
# Flex Power Designer release 4.0.1

## 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](#)

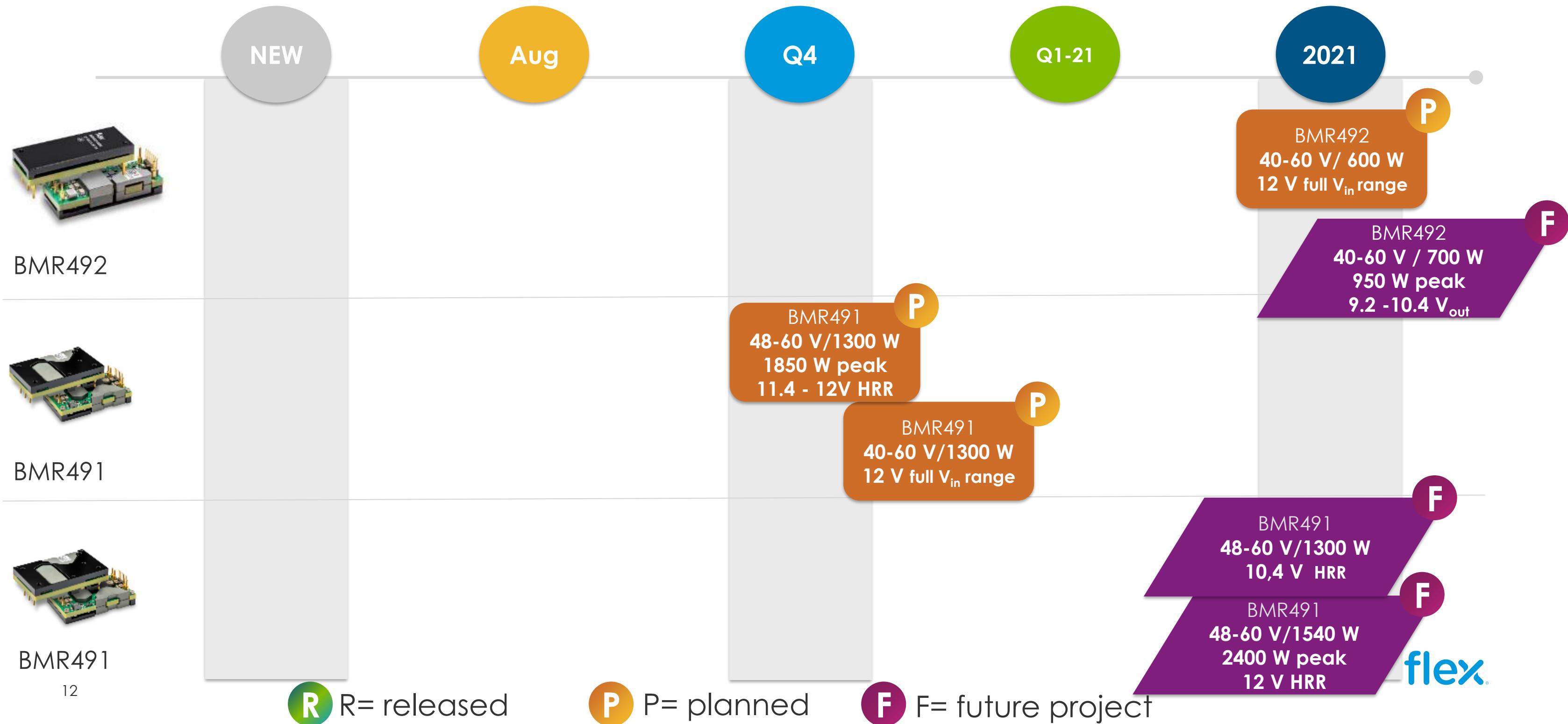


# Roadmap

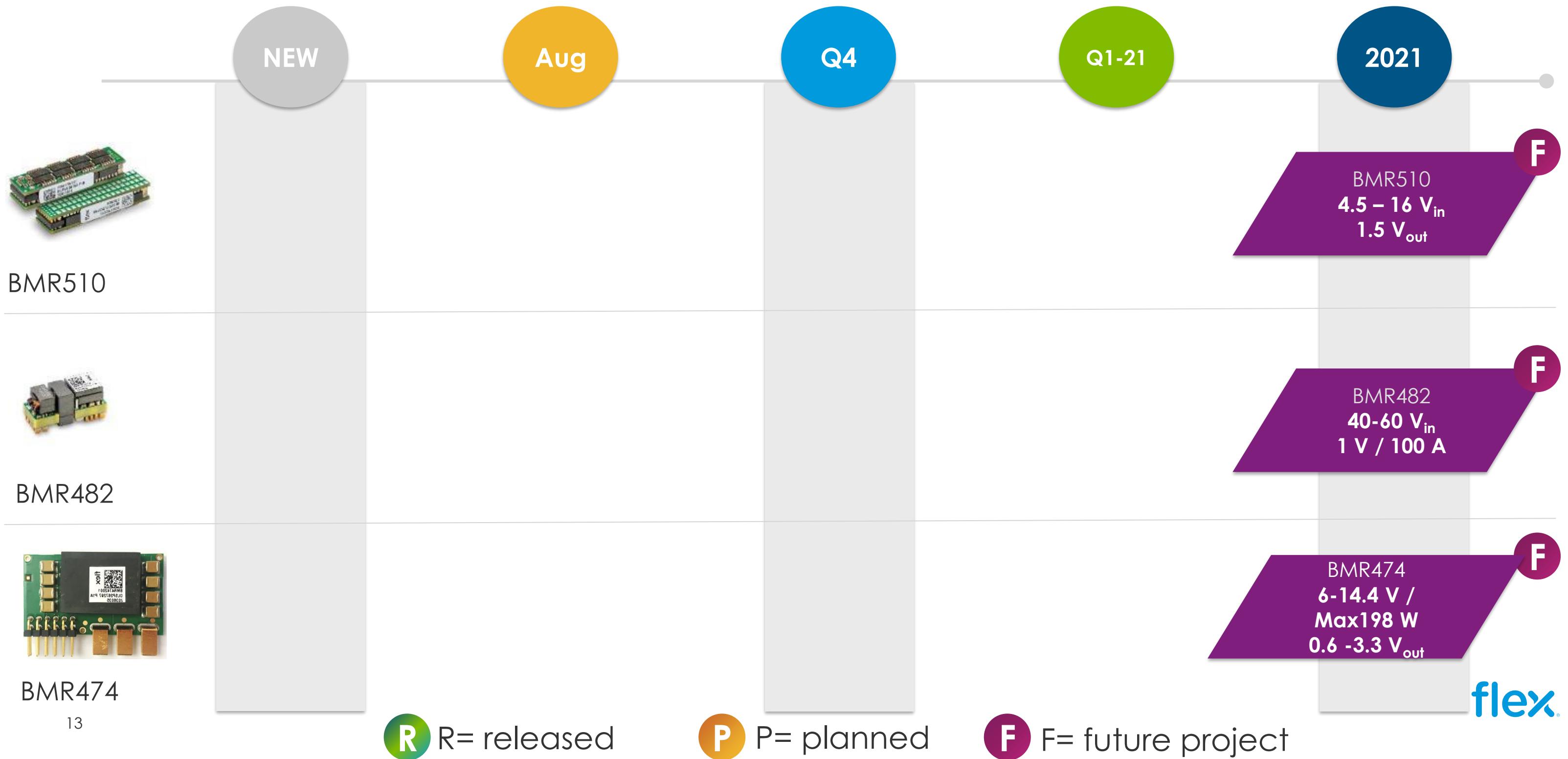
Product roadmap monthly updated  
and available from your Sales  
contact

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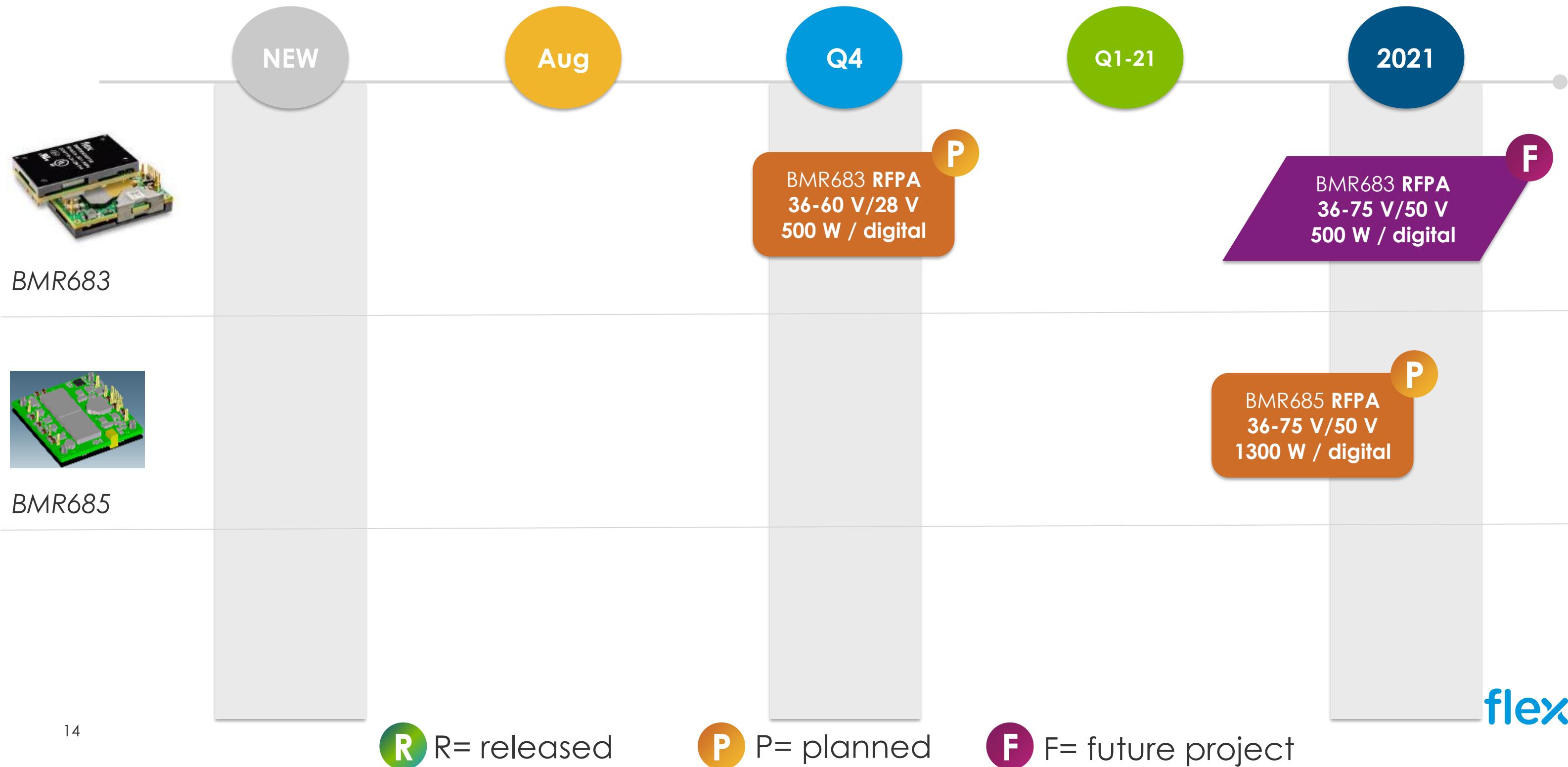
# Roadmap datacom



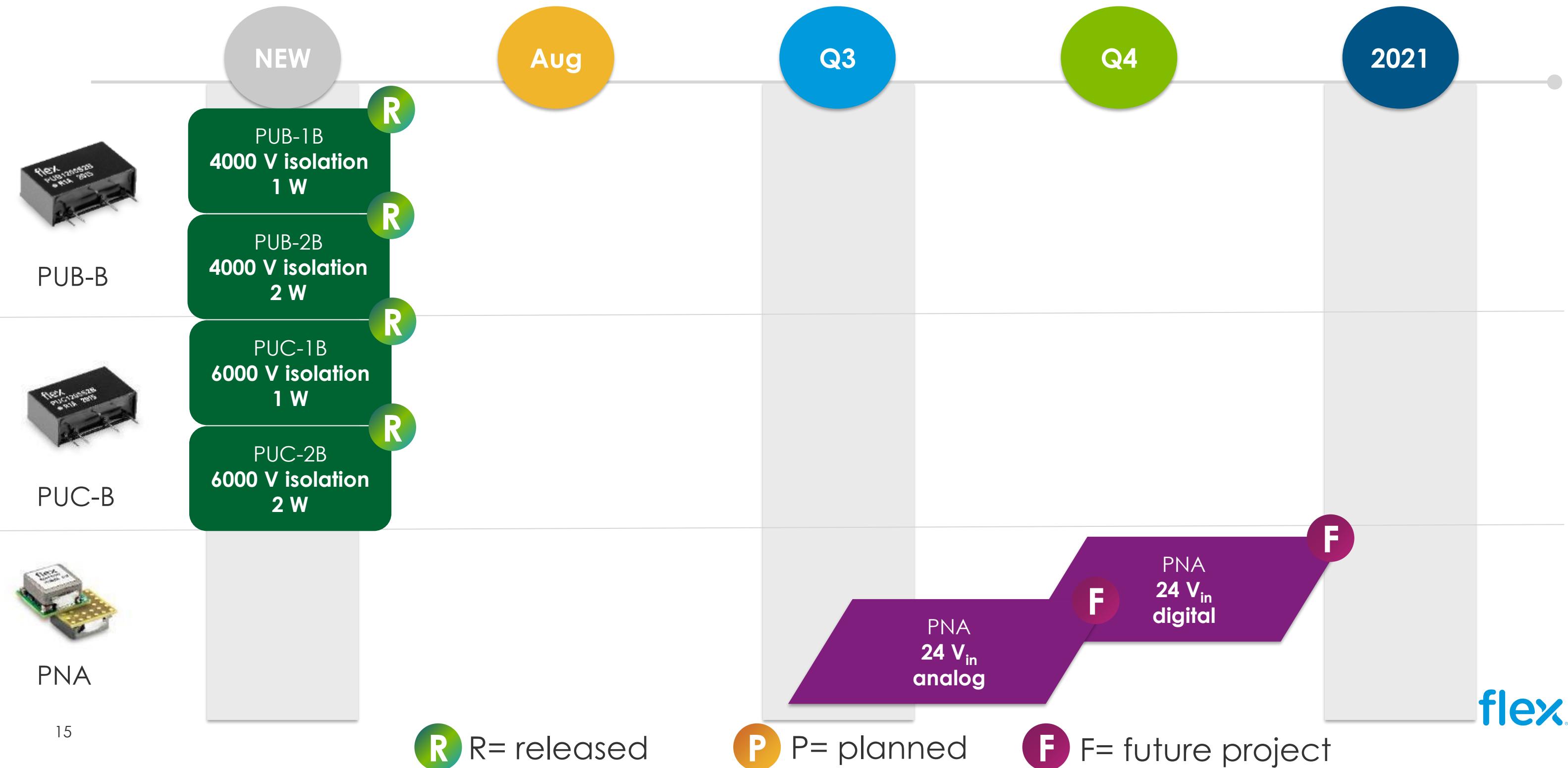
# Roadmap datacom



# Roadmap telecom



# Roadmap industrial & transportation



# 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:

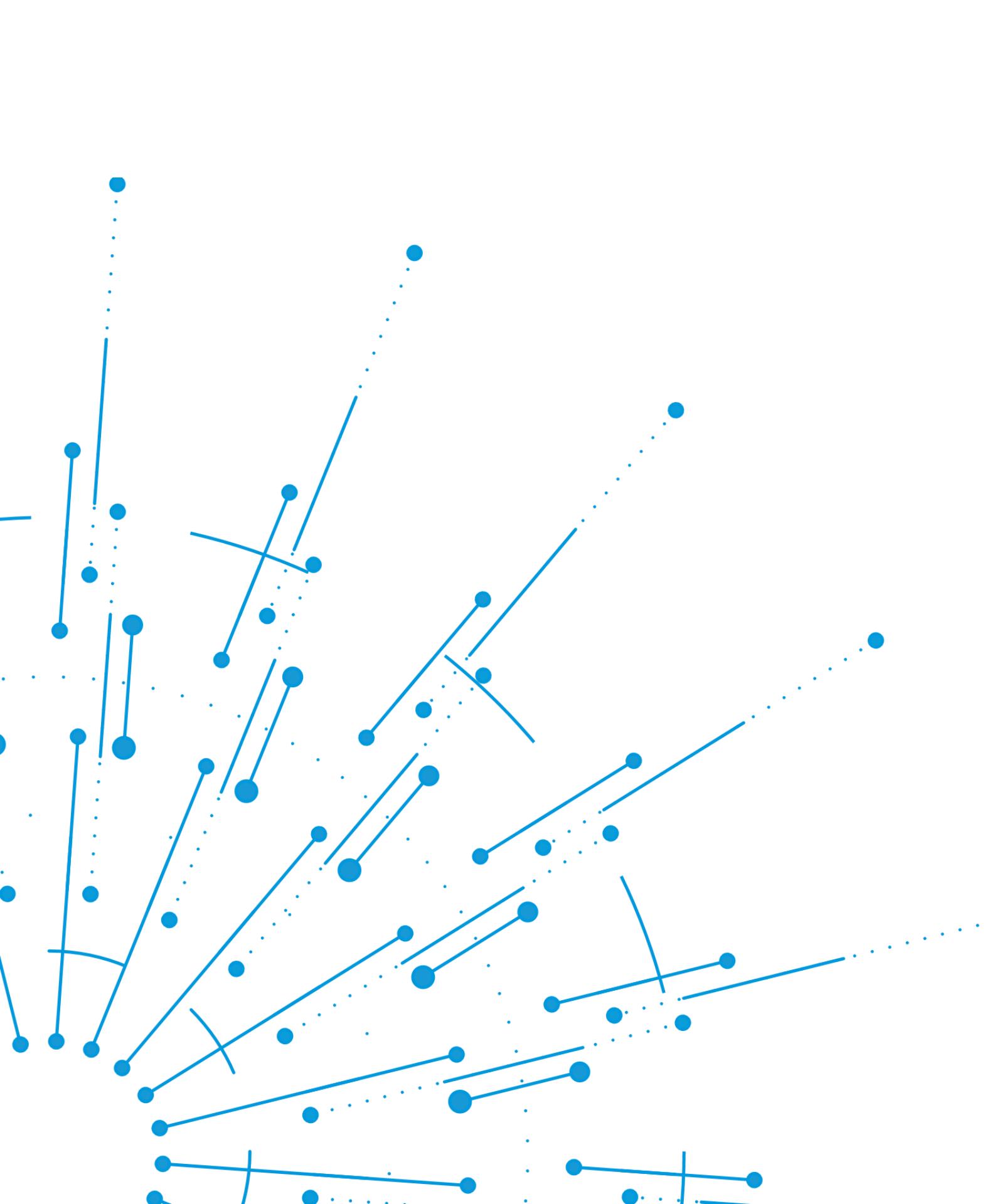
- Support for BMR492 (Shasta controller)
- Xilinx extended support
- Thermal model for BMR491 and BMR492

## 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:

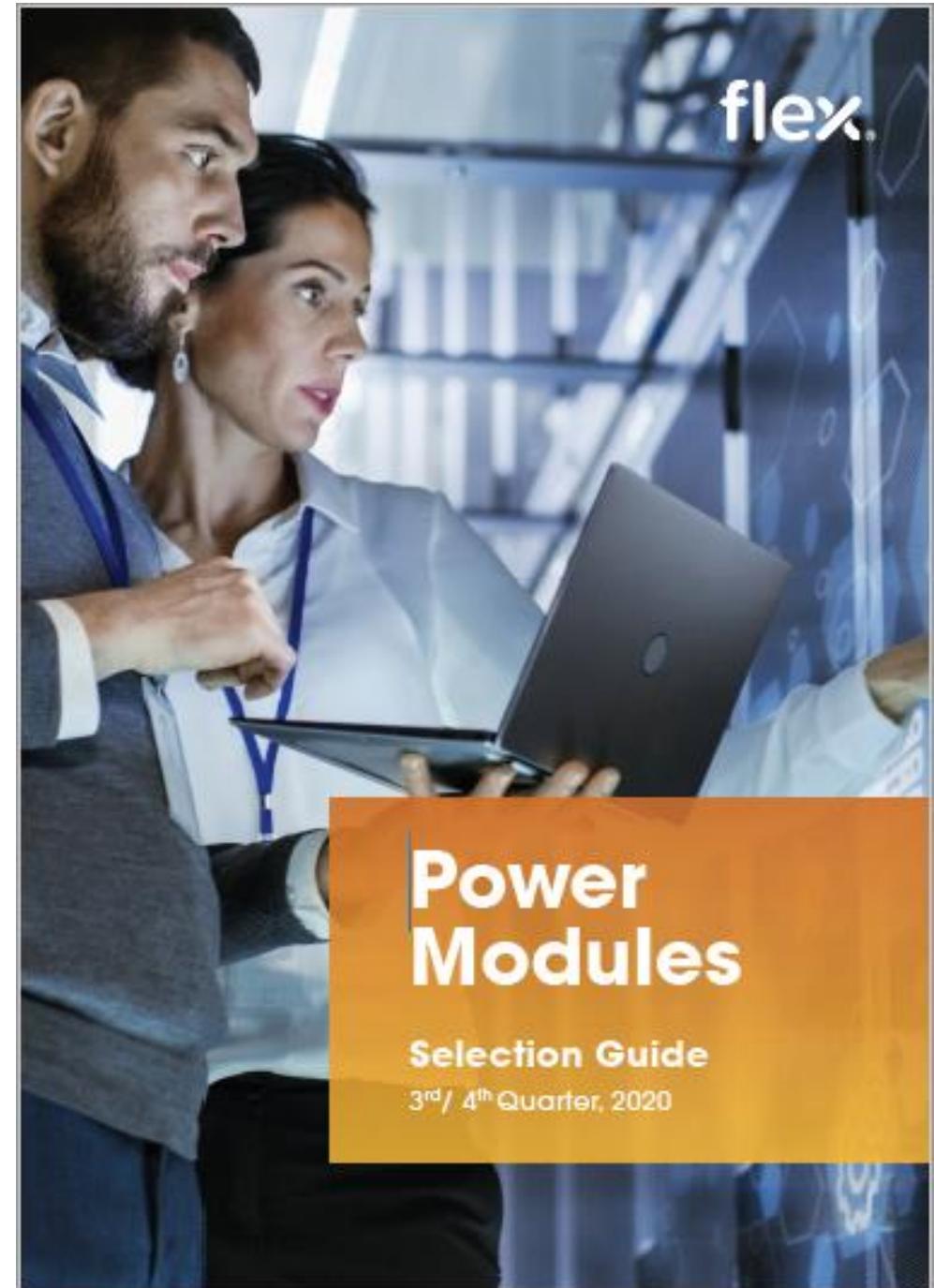
Topic: FPD release 4.0 scheduled for 5th November – more info soon on our web

## 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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