



# UltraCP™ Fully Integrated Charge Pumps

MYC0300, MYC0400

## Applications

Enables higher overall system level power conversion efficiency by providing a high efficiency intermediate bus supply which reduces the size of downstream buck converters in space critical applications such as:

- 2-cell and 3-cell narrow-voltage DC notebooks
- 12V point-of-load systems for telecoms and datacoms
- 48V to 12V systems for telecoms, datacoms, and high performance computing

## Features & Benefits

- Fully-integrated 45W and 60W modules with all components integrated into an ultra-small, easy-to-use package
- Virtually lossless (98%) conversion efficiency
- Parallel operation for higher power levels
- Soft switching technology with patented “adiabatic” function for low noise
- Configurable divide-by-two or divide-by-three modes (MYC0300) and fixed divide-by-four (MYC0400)
- Low EMI fixed-frequency operation under heavy load conditions
- Selectable frequency fold-back for improved light load efficiency
- Bi-directional operation (MYC0400)





# UltraBK™ Fully Integrated Buck Regulators

MYTNA1R86RELA2RA

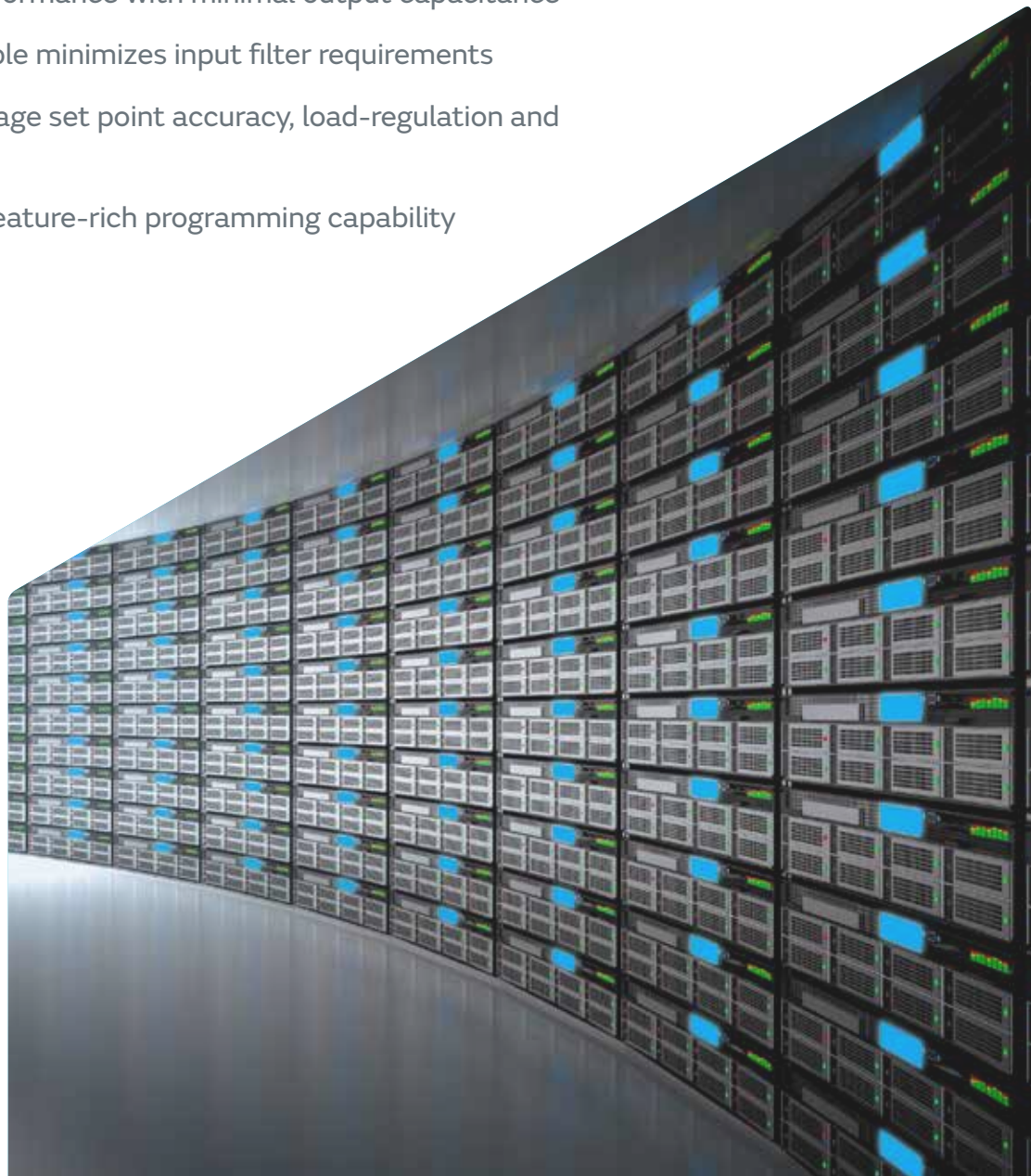
## Applications

LPDDR memory for 2-cell and 3-cell NVDC notebooks

12V point-of-load applications: micro-servers, SSDs, networking, PCIE cards, powering FPGAs, DDR memory and ASICs

## Features & Benefits

- Fully-integrated 6A module with unique architecture dramatically reduces solution size/height while increasing conversion efficiency
- Low EMI signature with fixed switching frequency suits noise-sensitive applications
- Fast transient performance with minimal output capacitance
- Very low input ripple minimizes input filter requirements
- Class-leading voltage set point accuracy, load-regulation and line-regulation
- I2C interface for feature-rich programming capability and telemetry



**muRata**

INNOVATOR IN ELECTRONICS



# GaN FET Drivers

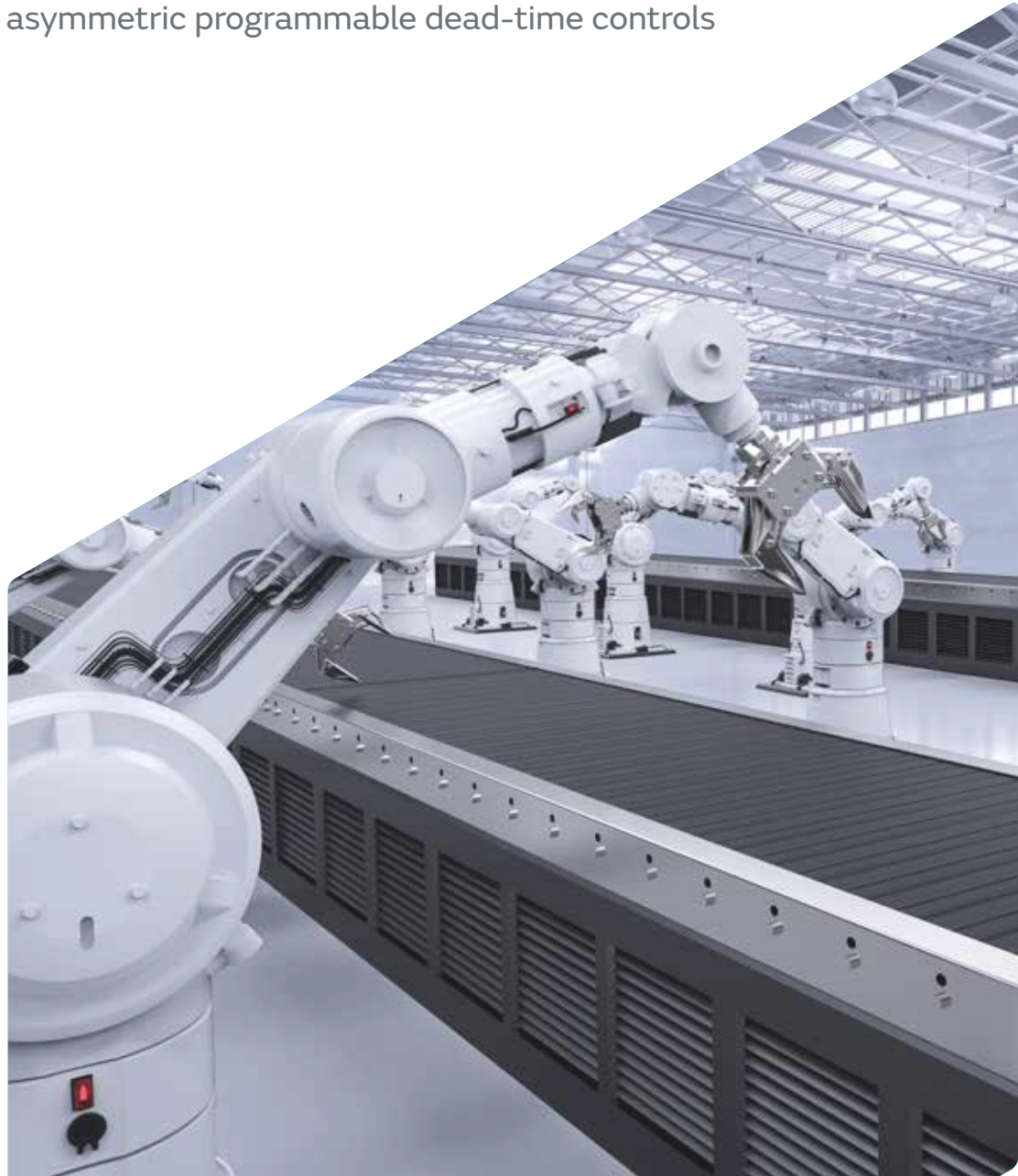
PE29101, PE29102

## Applications

Wireless charging, LiDAR and Class D audio

## Features & Benefits

- Compatible with leading gallium nitride (GaN) FETs
- Industry-leading switching times: minimum pulse width, propagation delay, rise/fall times
- Symmetric and asymmetric programmable dead-time controls







# Ultra-High Efficiency LED Boosts

ARC1C0608, ARC2C0608, ARC3C0845, ARC3C0845W

## Applications

LED backlight arrays in ultra-high-definition (UHD) and high-definition (HD) LCD panels for 2-cell and 3-cell narrow-voltage DC notebooks, industrial and automotive displays

## Features & Benefits

- Typically halving losses in power conversion saving 0.25W to 0.75W depending on screen size, resolution and NIT value
- WLCSP packages combined with tiny chip inductors enable ultra-thin, low-profile (<1 mm) solutions for integration into infinity edge, thin display panels
- Lowest possible thermal losses reduce BOM count, and solve thermal dissipation issues
- Up to 45V output for maximum flexibility in assignment of LEDs to strings and selection of LED forward voltage
- Up to 12-bit dimming resolution with an additional 3-bit dithering
- Supports linear/logarithmic analog and PWM dimming, or direct PWM dimming, for maximum flexibility and resolution