

## Solve 5G Data **Challenges With More Intelligence** at the Edge

The effects of 5G will be felt far beyond blazing fast data for mobile phones speeds that enable HD movie downloads in seconds.<sup>1</sup> As 5G exponentially increases the amount of data we use, generate and store, compute must continue expanding beyond the cloud - to the physical network and devices at the network edge.



# What Is the Intelligent Edge?

This is the growing set of connected systems and devices at the physical network edge where data is analyzed and aggregated close to where it is generated.

### **Edge Devices**

Expanding intelligence means giving 5G-connected edge devices and the internet of things (IoT) the computing horsepower that was once exclusive to

### **Facts About Data** at the Edge

10%



# **5G Generates More Data Faster**

The massive amounts of data from 5G-enabled devices make edge intelligence critical to avoid overwhelming data centers with mountains of data.<sup>4</sup>





### More Memory and Storage Are Needed to Overcome 5G Data Challenges at the Edge

Data challenges have extended beyond the cloud. They can be solved with advanced memory and storage at the network edge.

Data and Device Volume	<b>Challenge</b> Unprecedented amounts of data will be generated from more connected 5G devices.	<b>Solution</b> Scalable, high-bandwidth storage and memory are needed to keep growing quantities of data moving fast.		
Responsiveness	Processing data in the cloud delays the real-time response (low latency) required for 5G-connected edge devices.	High-bandwidth, low-latency memory and storage in edge devices enable near-real-time analysis and processing.		
Data Security	That data must be protected where it was generated.	Security embedded directly in flash memory hardware helps protect data where it is created and consumed.		

# **Micron Memory and Storage** Are the Heart of the Intelligent Edge

The key to creating more intelligence in 5G-connected edge devices lies in enabling data to be stored, moved, processed and secured efficiently. Micron's expansive portfolio of memory and storage products helps solve 5G's data challenges.

<b>-ow-power DRAM</b> High-performance nemory quickly processes data in attery-powered levices so they can eturn to an energy-efficient sleep mode.		NOR flash m Low-latency, high-endurand delivers reliable data storage f applications re fast boots, ran access and lo data storage.	ce r le c or equ	memory code and iiring om-read	memory Multichip low-pow suitable driver-as (ADAS) a	b tive-grade y o packages and ver DRAM are for advanced ssistance systems and levels 4 and 5 hous vehicles.
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### Learn more: micron.com/5gmemory

#### Sources

- <sup>1</sup> Let's Talk, "5G vs. 4G"
- <sup>2</sup> Gartner, "What Edge Computing Means for Infrastructure and Operations Leaders"
- <sup>3</sup> Lifewire, "5G Speed: How to Understand the Numbers"
- <sup>4</sup> Qorvo, "Getting to 5G"

