Optimized Memory for the Internet of Things



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Corporate Overview







New Markets = New Requirements





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The Internet of Things (IoT) According to Cisco

Many 'Things' Powered by Battery / Energy Harvesting



Data source : Cisco WSN Conference Berlin April 2014

Critical Factors:

Power Management, Energy Efficiency, NVM for Data and OTA Updates



What Do All of These "Things" Have in Common?

They are connected...

• Wireless (and wired) protocols



System Energy Consumption is Critical...

• Many run on batteries / or energy harvesting



They Need Application Memory...

• Embedded vs Discrete

Low Density

 Industry has focused on Increasing Memory Density 128Mbit+

Low Energy

• Lower Power has been sacrificed for streamlined, lower cost , higher density devices



The Future of IoT Memory





Emerging Memory will Enable New IoT Capabilities

CBRAM: World's *Lowest Energy Non-Volatile Memory Technology* Ever Demonstrated

Adesto Technologies Demonstrates Non Volatile Memory Operating at sub 1V in a Body Sensor Chip - VLSI Symposium 2013





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