



INDUSTRIAL TEMP (-40°C TO +95°C) | CAPACITIES: 1GB – 256GB

Simplify, Accelerate, and Reduce the Cost of the Embedded Systems Development

MEMORY INTERFACE & FORM FACTORS

DDR5
DDR4
DDR3
DDR2
DDR
SDRAM

VLP/ ULP/ Standard
SODIMM, MiniDIMM,
UDIMM, RDIMM

KEY FEATURES

- Extended -40°C to +95°C operating temp
- Extended product life (7+years) beyond fast-moving industry changes
- Industry's widest range of capacities: 1GB to 256GB with industrial-grade DRAM solutions
- Specialized high-capacity, small format DIMM solutions (VLP/ULP, mini-DIMM)
- Patented stacking technology / ruggedized designs
- Conformal coating, underfill, and 30µ gold finger options
- High Reliability, consistent performance and low power

Virtium Advantages	Details
Technology Stack	<ul style="list-style-type: none"> • Value-added features leveraging mainstream technology • Optimized design and architecture for longevity, cost, and performance
Quality Systems	<ul style="list-style-type: none"> • Highest reliability in design, production, and delivery • Extensive technical support from design to end-of-life
Lifecycle Solutions	<ul style="list-style-type: none"> • Longest product availability • Consistent and sustainable solutions during product lifecycle

Virtium extends its Industrial / Edge AI products to include SOMs, AI Accelerators, and Connectivity solutions.



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MEMORY MODULES

		Product Features					
Form Factor		SDRAM	DDR	DDR2	DDR3	DDR4	DDR5
ULP/UDIMM		✓	✓	✓	✓	✓	✓
ECC UDIMM		✓	✓	✓	✓	✓	✓
SODIMM		✓	✓	✓	✓	✓	✓
ECC SODIMM				✓	✓	✓	✓
SO-RDIMM			✓	✓	✓	✓	
SO-CDIMM		✓	✓	✓	✓	✓	✓
ULP/RDIMM		✓	✓	✓	✓	✓	✓
MINI-RDIMM				✓	✓	✓	
ECC MINI-DIMM				✓	✓	✓	
Data Transfer Rate		PC100 PC133	PC2100 PC2700 PC3200	PC2-3200 PC2-4200 PC2-5300 PC2-6400	PC3-12800 PC3-10600 PC3-8500	PC4-2133 PC4-2400 PC4-2666 PC4-2933 PC4-3200	PC5-4800 PC5-5600
Capacities	Min	1GB	256MB	1GB	1GB	4GB	8GB
	Max	8GB	4GB	8GB	32GB	64GB	256GB

ABOUT US

Virtium has been a trusted supplier of solid-state storage and memory solutions for over two decades. Building on this legacy, we are excited to expand our product portfolio to include SOMs, AI accelerators, and connectivity modules. Designed for industries that demand extreme temperature tolerance, unwavering reliability, exceptional endurance, and long product lifespans, Virtium’s solutions deliver seamless, high performance for Edge AI embedded systems and advanced digital infrastructures. Virtium remains committed to providing unparalleled service and support throughout the entire product lifecycle.

To learn more, visit our website:

- For storage and memory modules: www.virtium.com
- For SOMs, AI accelerators, and connectivity solutions: www.embeddedartists.com

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