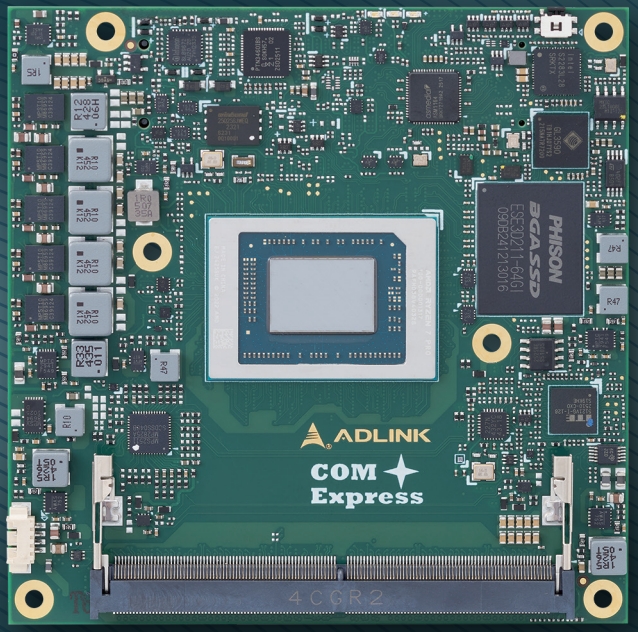
ADLINK
Leading EDGE COMPUTING

For Industrial Workloads

cExpress-R8

AMD Ryzen™ Embedded 8000 COM Express Type 6 Module



Unlock next-level industrial performance with the cExpress-R8, a COM Express® COM.0 R3.1 Type 6 Compact module powered by the AMD Ryzen™ Embedded 8000 processor. Featuring up to 8 "Zen 4" cores (16 threads), integrated AMD RDNA™ 3 graphics, XDNA™ NPU, and combined up to 39 TOPS performance, this module delivers power-efficient AI inferencing and fast decision-making at the industrial edge.

The cExpress-R8 supports up to 96GB dual-channel DDR5 at 5600 MT/s (with non-ECC/ECC options). It also powers up to four independent 4K 60 displays, making it ideal for advanced visual applications.

- AMD Ryzen™ Embedded 8000 CPU 8C / 16T
- AMD RDNA™ 3 GPU 6 WGPs
- AMD XDNA™ AI NPU
- Up to 96GB DDR5 ECC Memory
- 4x 4K 60 DP / eDP / HDMI / LVDS / VGA
- COM Express Type 6 R3.1 Compact (95mm x 95mm)

adlinktech.com/en/amd-based-solutions

COM Express

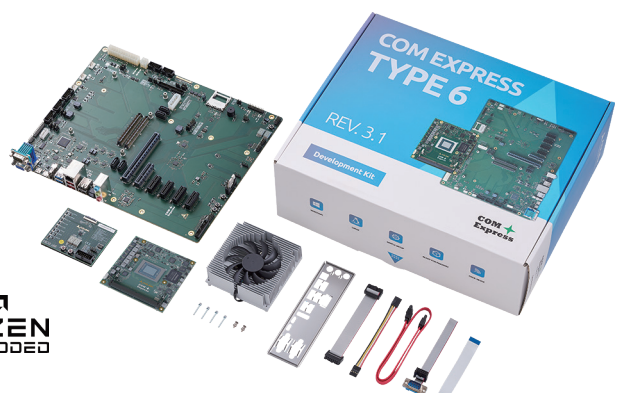
AMD RYZEN EMBEDDED

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

ADLINK
Leading EDGE COMPUTING

Top Performance, Highly Integrated, Accelerated AI

AMD Ryzen™ Embedded 8000 Series processors set a new standard for processing performance, graphics delivery and I/O connectivity among AMD industrial processing solutions, and are the first AMD Embedded devices to integrate Neural Processing Units, or NPUs based on the AMD XDNA™ architecture alongside traditional CPU and GPU elements.



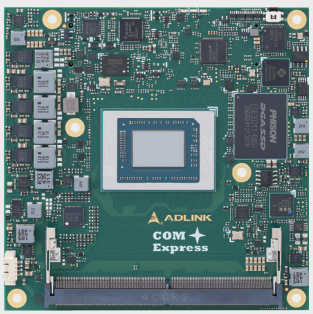
AMD RYZEN EMBEDDED

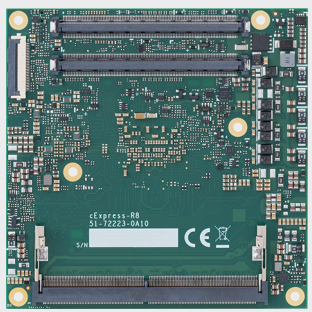
Key Features

- High Scalability
- Power Efficiency
- Reduced TCO
- 10 Years Longevity

Specifications

cExpress-R8





CPU	AMD Ryzen Embedded 8000 series
Memory	Dual-channel DDR5 non-ECC/ECC max.
	5600 MHz up to 96GB (2x 48GB)
BIOS Type	AMI UEFI with CMOS backup in 32MB SPI BIOS
Graphics Outputs	4 independent displays,
	LVDS (or eDP 1.4, opt.)
	2x DDI (or USB4, opt.)
	1x DDI (or VGA, opt.)
LAN	up to 2.5GbE (Intel i226, TSN, opt.)
USB	4x USB 3.X
	2.0, 4x USB 2.0
Serial ATA	2x at 6Gb/s
PCI Express	1x PCIe Graphic x8 Gen4
	2x PCIe Graphic x4 Gen4
	8x PCIe x1 Gen4 (no SATA, opt.)

eMMC (opt.)	64-256GB NVMe SSD
SD	-
Audio	HDA
TPM	TPM 2.0
Management Bus	I²C, SMBus
Embedded Features	EAPI/SEMA, Debug/JTAG
Power Supply	8.5-20V / 5Vsb ±5% (ATX), 8.5-20V (AT)
Operating Temperature	Standard: 0°C to 60°C
Form Factor & Compatibility	PICMG COM.0 R3.1
	Type 6 Compact size: 95 x 95 mm
OS support	Ubuntu yocto

Purchase at
www.ipi.wiki

All products and company names listed are trademarks or trade names of their respective companies. Updated Sep. 5, 2025. ©2025 ADLINK Technology, Inc.
All Rights Reserved. All pricing and specifications are subject to change without further notice

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000