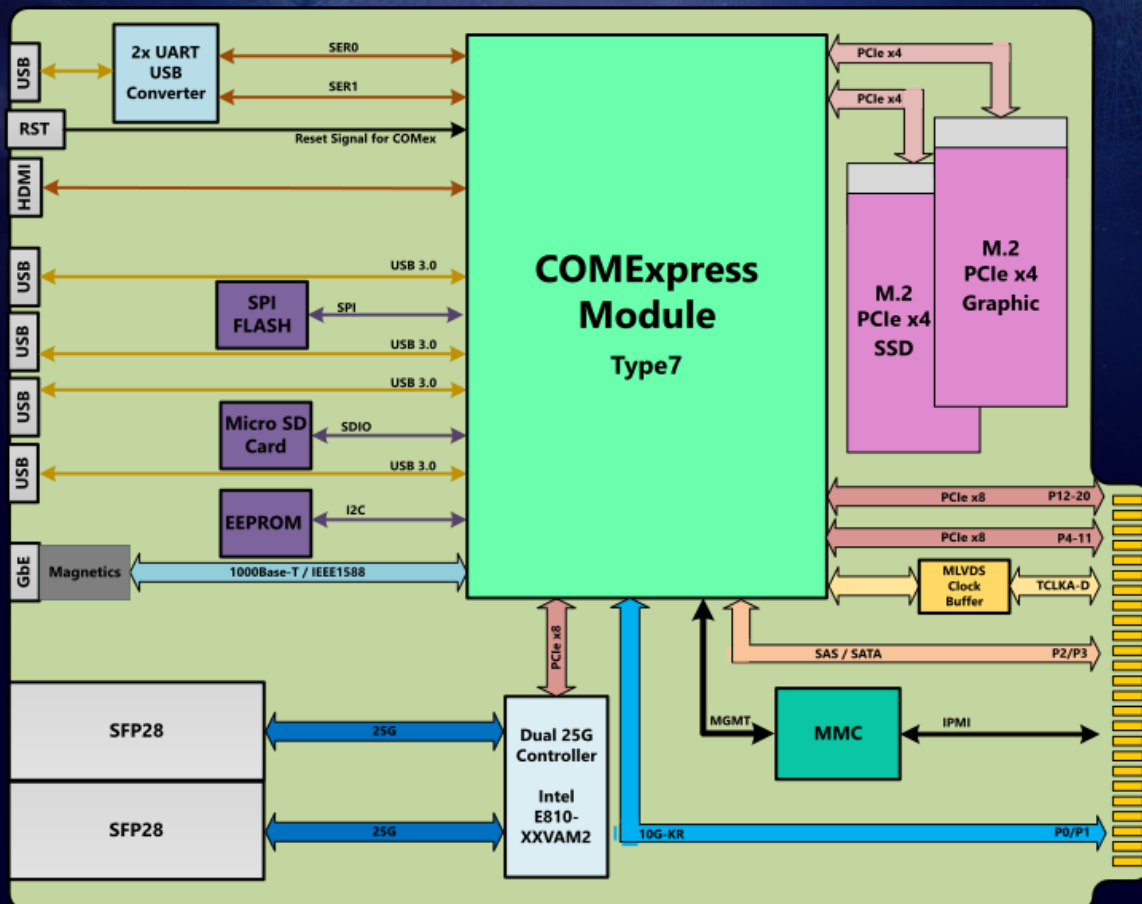


NAT-AMC-COMex



The **NAT-AMC-COMex** is an COMExpress (COMex) carrier board in double full-size AMC form factor. As the name implies, a COMExpress module is a Computer-on-Module, which means, it concentrates the core functionality of an x86 processing system on one single PCB. This includes CPU and memory functionality, graphics, and the most common interfaces.

Different types of COMExpress modules have been designed for different applications. Thus, the choice of the type determines the application field of the **NAT-AMC-COMex**. So the carrier board can work as a general purpose processor AMC (PrAMC), storage, or graphics solution if combined with the appropriate COMExpress module.

The **NAT-AMC-COMex** supports any COMex module Type7 validated by NAT. It offers PCIe Gen4 x8 at ports 4-11 and 12-20 at the backplane. Moreover, it provides 2x 10G Ethernet via port0/1, 2x 25G Ethernet via SFP28 front uplink, and a 1G Ethernet link via RJ45 at the front panel.

One M.2 PCIe x4 interface is intended for mounting a memory device, a second one can be equipped with a graphic card. If so, the board provides an HDMI interface at the front panel.

Thus, the **NAT-AMC-COMex** offers a wide range of setups from well-priced to high-performing configurations.

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Form Factor	
	• Double-width, full-size AMC • Width: 147 mm, Depth: <180.6 mm
Mounting Slot	
	• For any type of COMExpress-Type 7 module validated by N.A.T.
On-Board Resources COMex Type-7	
MMC	• Microchip ATxmega128
Ethernet Controller	• Dual 25G Intel Ethernet Controller E810-XXVAM2
Storage	• MicroSD-Card • M.2 PCIe x4 memory interface for SSD, FLASH
Graphic	• M.2 PCIe x4 graphic module (option)
Front Panel Connections	• HDMI port (option) • 4x USB 3.0 • 1x 1G Ethernet vis RJ45 • 2x SFP28 (25G Ethernet) • Debug
Backplane Interconnect	• IPMI • AMC Port 0/1: 10G-KR • AMC Port 2/3: SAS / SATA • AMC Port 4-11 / 12-20: PCIe x8 Gen4 • TCKLA-D
LEDs	
	• Standard AMC LEDs (Status, Fault, Hot-Swap)
Compliance	
	• MTCA.0 / MTCA.4 • AMC.0 • AMC.1 • AMC.2 • IMPI V2.0 • HPM.1
Environmental	
Operating Environment	• default: 0 to +50 degrees Celsius • Humidity: 5% to 95% (non-condensing)
Storage Environment	• default: -40 to +100 degrees Celsius • Humidity: 5% to 95% (non-condensing)