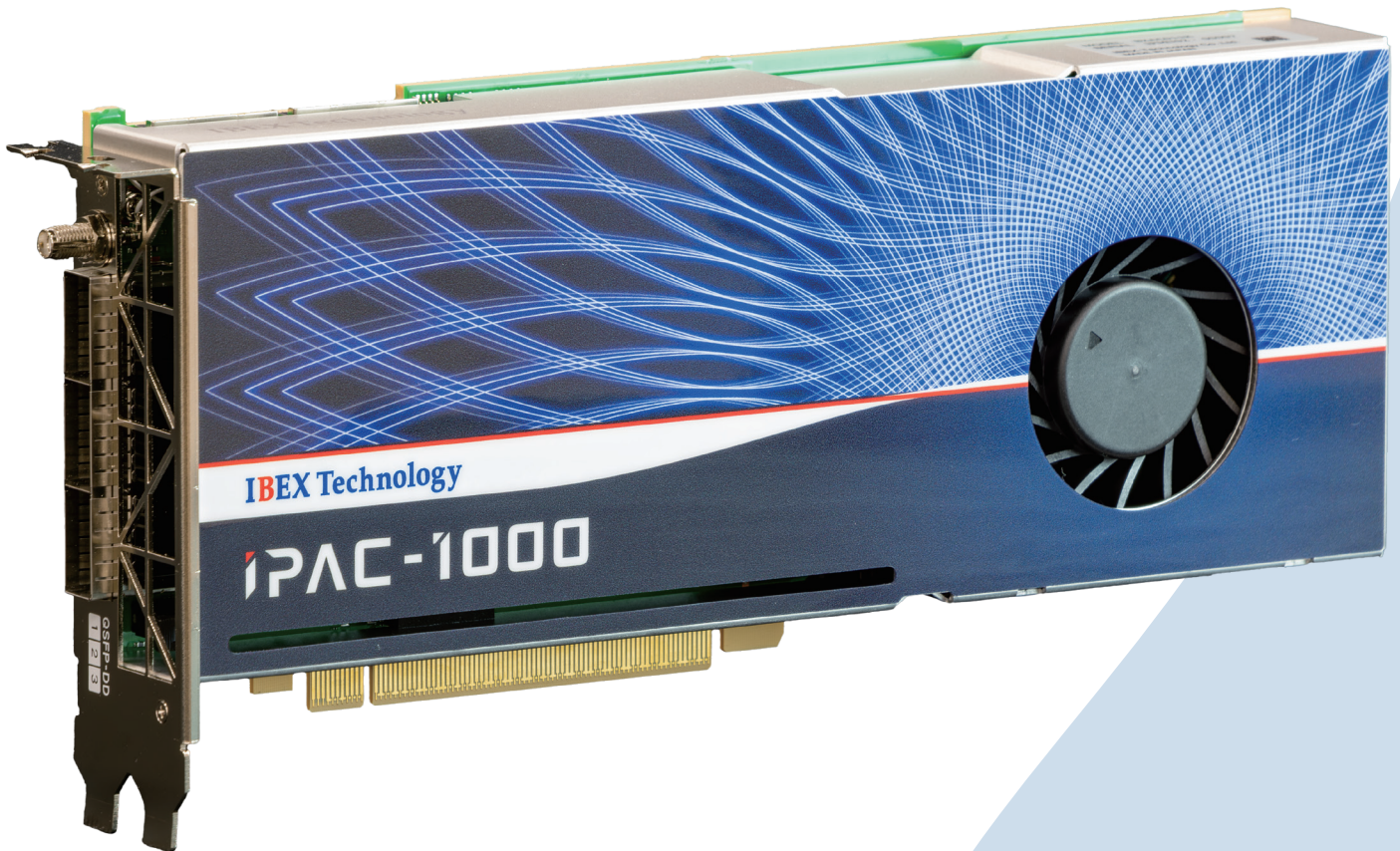


# IPAC-1000

IBEX PCIe standard programmable Acceleration Card with an Agilex™ 7 FPGA M-Series



The IPAC-1000 is a programmable PCIe acceleration card powered by the Agilex™ 7 FPGA M-series. With its rich compute resources and ultra-wideband memory, it delivers exceptional performance for demanding workloads.

Designed, developed, and manufactured entirely in Japan, the IPAC-1000 offers the reliability and quality of domestic craftsmanship—along with responsive local support you can count on. It supports the Open FPGA Stack (OFS) and oneAPI, with integration and support provided by IBEX Technology, enabling fast development and deployment.

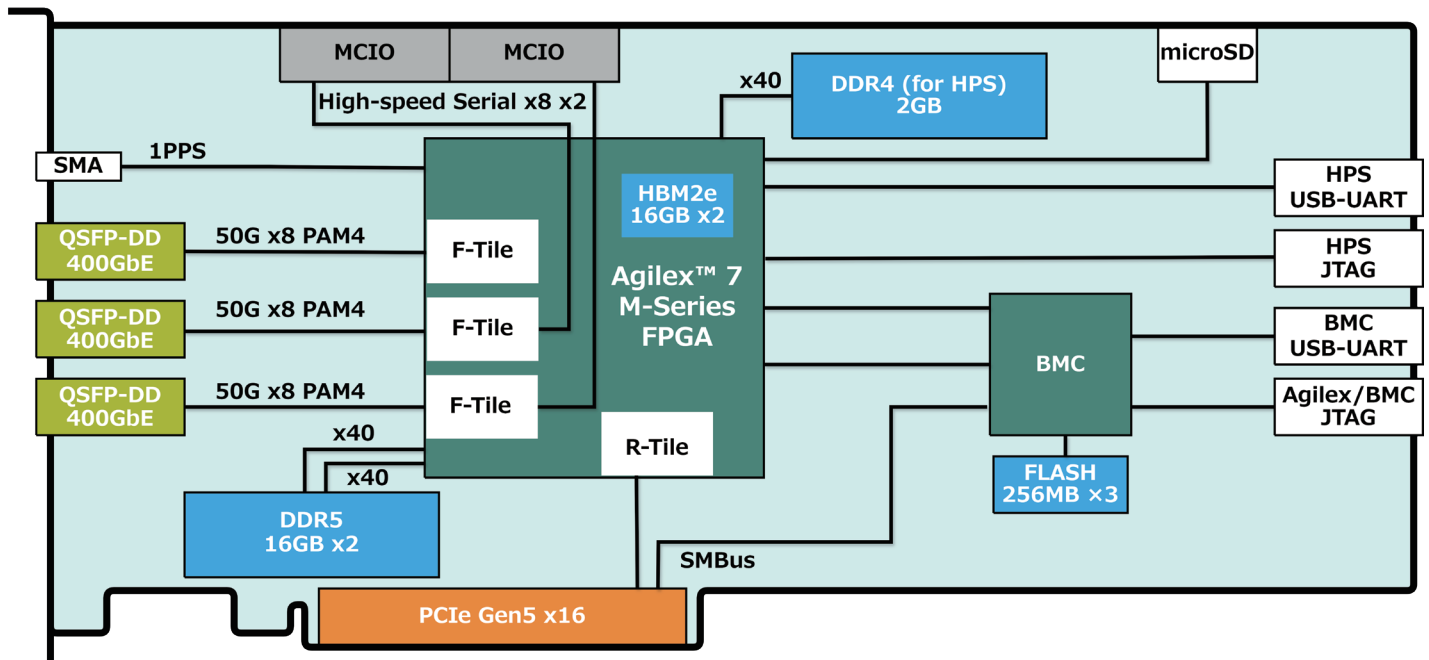
In practical use, the IPAC-1000 plays a key role in the research for fault-tolerant quantum computers, enabling low-latency, high-throughput quantum error correction.

## IBEX Technology

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# IPAC-1000

IBEX PCIe standard programmable Acceleration Card with an Agilex™ 7 FPGA M-Series



## FPGA

- Agilex™ 7M-Series FPGA (AGMF039R47A2E2V)

## On-board Memory

- HBM2e 32GB (FPGA internal)
- DDR5-4800 RDIMM 32GB
- DDR4-3200 2GB

## Interface

- PCIe Gen5 x16
- 400G QSFP-DD x3
- 72pin MCIO x2
- microSD, MicroUSB, JTAG
- SMA

## Form Factor

- Full height, 3/4 length, dual slot

## Power Supply

- 16-pin 12VHPWR connector

## Development Environment

- Open FPGA Stack (OFS)
- oneAPI Base Toolkit

## Maximum power consumption

- 250W

## Cooling Options

- Built-in DC FAN or External Air Flow

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