

Micro-module system architecture





Overview

It is a design approach where it involves creating a software application out of small, independent services that communicate over well-defined APIs. Microservice architecture and modular architecture are two popular paradigms, each with its own strengths and challenges. We will discuss how each works, what problems they solve, where they fall short, and how real-world companies use them. What Is a Modular Monolith?

A traditional monolith is a single deployable unit where everything—business logic, data access, UI, and utilities—is mixed together, often becoming a 'Big Ball of Mud'.



Micro-module system architecture



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25G SFP28 AOC
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100G QSFP28 AOC
QSFP-100G-AOC**M
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40G QSFP+ AOC
QSFP-40G-AOC**M
1m 2m 3m 5m 7m 10m 15m 20m 30m 50m

AOC
10G 25G
40G 10G



Monolith vs Microservices vs Modular Monoliths: What's

A modular monolith is an architectural approach that combines the simplicity of a monolith with the structured separation of microservices, without

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3. Microkernel Architecture

Pattern Description The microkernel architecture pattern consists of two types of architecture components: a core system and plug-in modules. Application logic is divided between independent



Microservice Architecture vs Modular Architecture: The

Understanding the differences between microservice and modular architectures and knowing when to use each one is crucial. Read and learn the

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Modular Monolith vs Microservices: Key Differences & When to

Modular monolith vs microservices -- compare architecture, scalability, cost, and team impact. Use our decision framework to choose the right approach in 2026.

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Microservices vs. Modular Architecture: Choosing the

Choosing between microservice and modular architecture depends on your project needs. Microservices offer scalability and flexibility but come with

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Microservices Killer: Modular Monolithic Architecture

The modular monolithic architecture divided our application logic into modules and each module will be independent and isolated.

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Testing Strategies in a Microservice Architecture

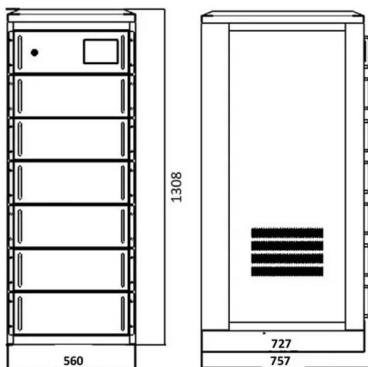
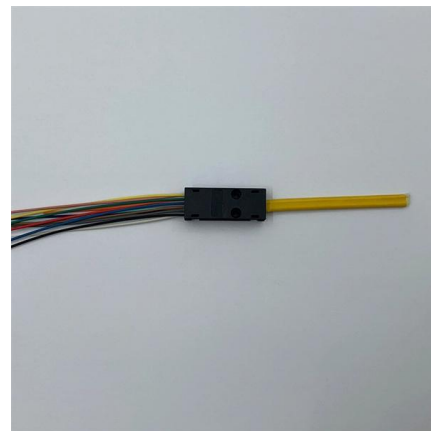
The microservice architectural style presents challenges for organizing effective testing, this deck outlines the kinds of tests you need and

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ARM architecture family

Arm (stylised in lowercase as arm) is a family of RISC instruction set architectures for computer processors. Arm Holdings develops the instruction set architecture

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Choosing The Right Architecture: Microservice vs

Understanding how microservice vs monolith vs modulith architectures perform in real-world scenarios is crucial to making informed architectural decisions. While

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System Design 101: Monolithic vs Modular Monolithic vs

In this article, we will explore three of the most common architectural styles: Monolithic Architecture, Modular Monolithic Architecture, and

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ONNX Runtime for Inferencing ONNX Runtime Inference powers machine learning models in key Microsoft products and services across Office, Azure, Bing, as well as dozens of community projects.

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Computer Organization and Architecture Tutorial

Computer architecture defines how a computer's components communicate through electronic signals to perform input, processing, and output

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Monolithic vs Modular vs Microservices Architecture:

A Modular Architecture is a middle ground between Monolithic and Microservices. It structures an application into separate, independent modules

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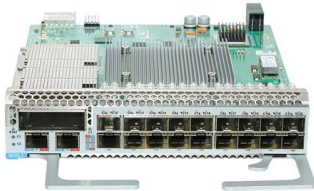




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System Design Introduction

System architecture overview: Defines the major components, modules, and how they interact (e.g., services, queues, databases) . Data flow

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Microservices vs. Modular Monolith: Choosing the Right Architecture

Summary - To ensure reliability, scalability, and cost-effectiveness, choose between microservices and a modular monolith based on your business objectives, organization, and budget.

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Microservice vs Modular Architecture: Key Differences

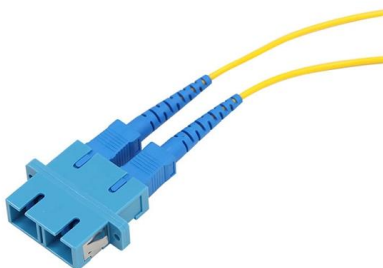
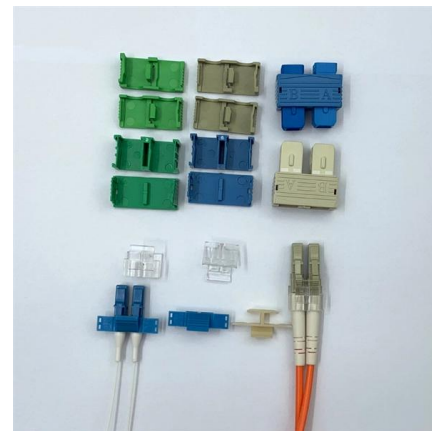
Modular architecture and microservice architecture are those that do, and will fit according to your project. The question is choosing one or the other.

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Modular software architecture 101: Modular monolith vs

Learn about the pros and cons of modular software architecture and find out which architecture type is the best fit for your project.

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System Design 101: Monolithic vs Modular Monolithic vs

System Design 101: Monolithic vs Modular Monolithic vs Microservices Architecture When you start learning system design, one of the first and most

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Microservices vs. Modular Architecture: Choosing the

Modular architecture divides a system into modules responsible for specific functionalities, forming a cohesive whole. Unlike microservices, modules

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Microservice Architecture vs Modular Architecture: The

Modular architecture is a design approach in which an application is divided into distinct, self-contained modules. Each module is responsible for a

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Modular Monolith vs Microservices in NestJS

Modular Monolith: a single application deployed as one unit, but with code organized into modules with clear boundaries. One module per business domain. Microservices: multiple

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