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STM32 cloud connectivity expansion packages for STM32Cube

STM32

“

If only

my IoT solution was highly secure and could easily connect to major cloud platforms or to my own server.

This is where we come in

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STM32 Cloud Solutions

Securely connect IoT devices to the cloud.
Deploy applications more easily.

STM32

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STM32 Cloud reference integration simplifies your development

STM32 CubeExpansion

X-CUBE-AZURE

X-CUBE-AWS

X-CUBE-CLDGEN

Certified software integrating:

- Security
- Device connectivity
- Cloud connectivity

Cloud storage

- Public
- Private
- Hybrid

Find out more at www.st.com/stm32-cloud-solutions

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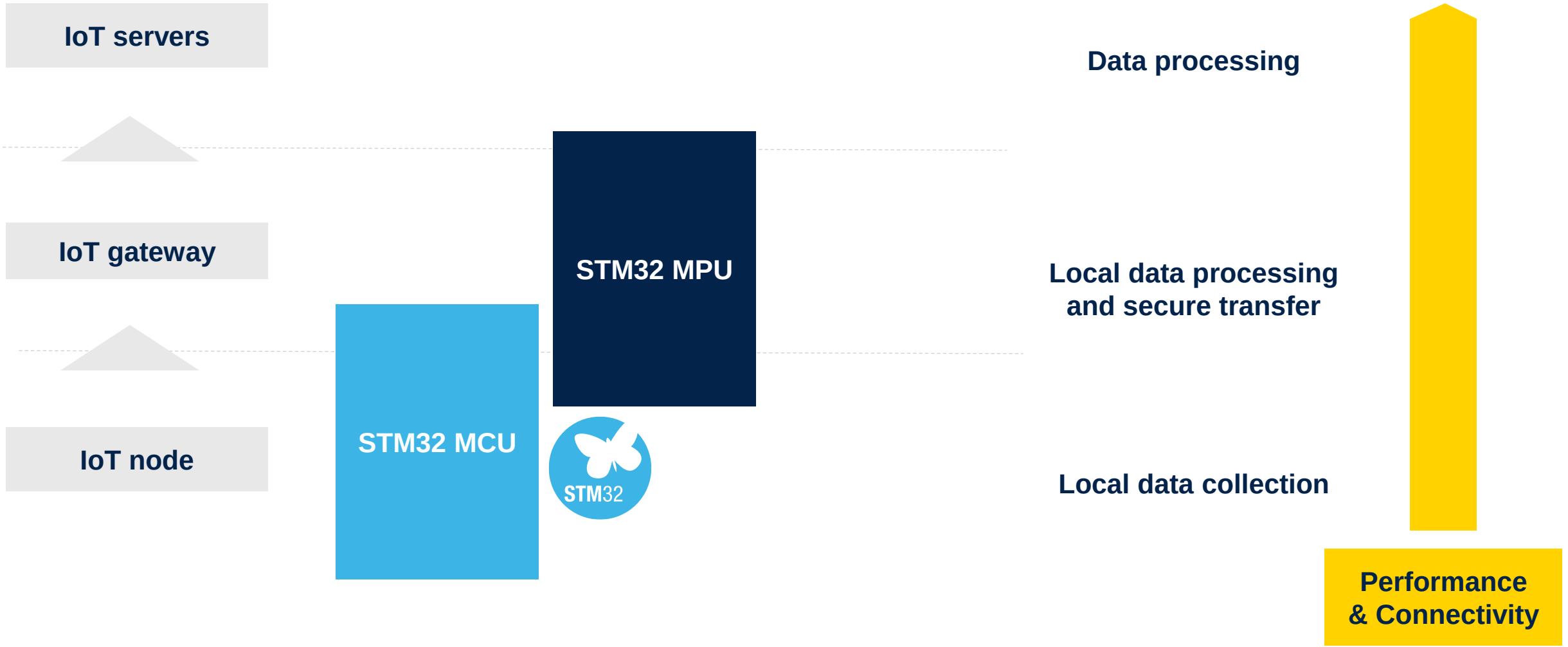
IoT cloud connectivity



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Quickly connect devices to any cloud service provider

STM32Cube software expansion packages

IoT protocols

- Integration of specific cloud provider SDKs
- Security integration
- Application examples
- Abstracted connectivity technologies

STM32 CubeExpansion

Developers benefit from

- Cloud connectivity, data integrity and confidentiality
- Lower development costs thanks to preconfigured ST application examples
- Secure firmware upgrade over-the-air (FOTA)
- Flexible and hardware agnostic API to support different connectivity technologies

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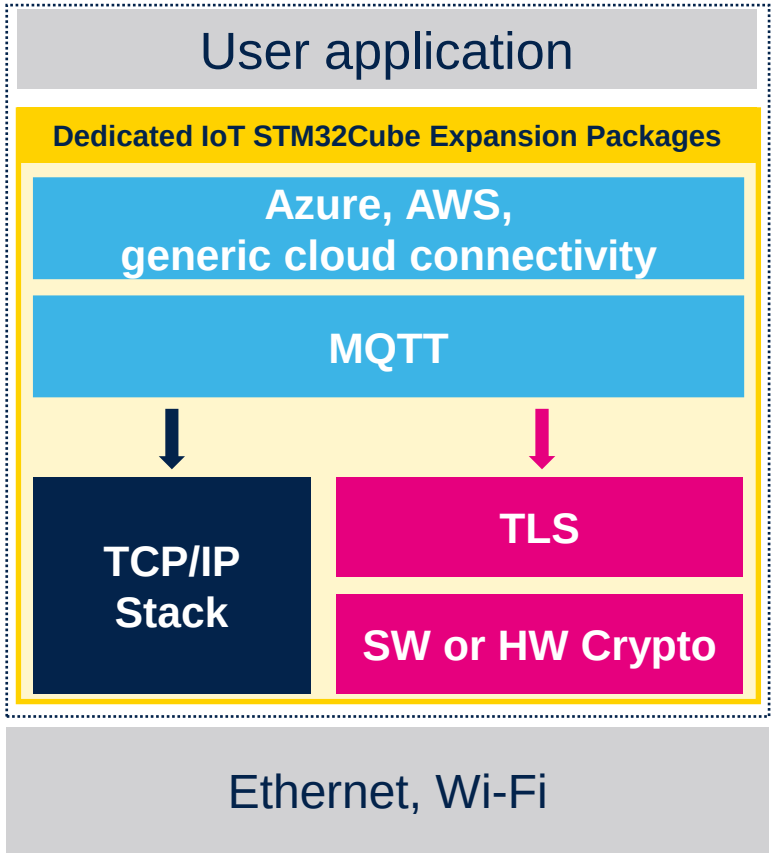
Dedicated STM32Cube expansion packages



Enabling connectivity with major cloud platforms

- X-CUBE-AZURE
- X-CUBE-AWS
- X-CUBE-CLD-GEN

Comprehensive software solutions

- Cloud connectivity and security (MQTT, TLS)
- Support for services from native cloud providers
- Application examples preconfigured for ST boards
- Ethernet, Wi-Fi

Supported STM32 platforms

Available for STM32L4, STM32U5, and STM32H5 MCUs

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STM32Cube expansions for STM32H5 MCUs cloud reference integrations

Easily connect your STM32H5 devices to main cloud service providers

Security

- ✓ Secure boot
- ✓ Private key and secrets storage
- ✓ Seamless registration process
- ✓ X509 certificate

Ready-to-run project

- ✓ Quick Connect script
- ✓ Project example
- ✓ Secure and non secure project

Connectivity

- ✓ Wi-Fi
- ✓ Ethernet

Cloud SDK

- ✓ Secure cloud connection
- ✓ MQTT based secure communication
- ✓ Secure Firmware update

STM32H5 connects smart things to major cloud providers in a secure way

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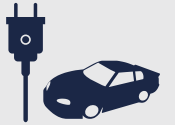
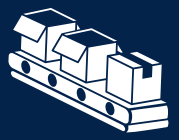
Applications and segmentation

IoT tracking		Luxury goods	Personal devices	Pet tracking	People tracking	Medical Monitor
Outdoor real-time monitoring		Containers	Fleet management	Livestock monitoring	EV Charging 	Mobility sharing
Indoor localization & Warehouse logistics		RTLS*	Mobile assets	Pallet	Smart parcels	Employee Safety
Good guarantee		Cold chain	Food tracing	Medical		
Disposable		Packages	Parcels	Smart truck		

*RTLS = Real Time Localization System

Development tools for cloud connectivity

Jump-start your evaluation, prototyping, and design

$65

Ultra-low-power MCU

B-U585I-IOT02A

$98.75

High performance MCU

STM32H573I-DK

$99

Microprocessors

STM32MP135F-DK *

** Expansion software available in Q4 23*

Recommended resale price

Our technology starts with You

Find out more at www.st.com/stm32-cloud-solutions

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