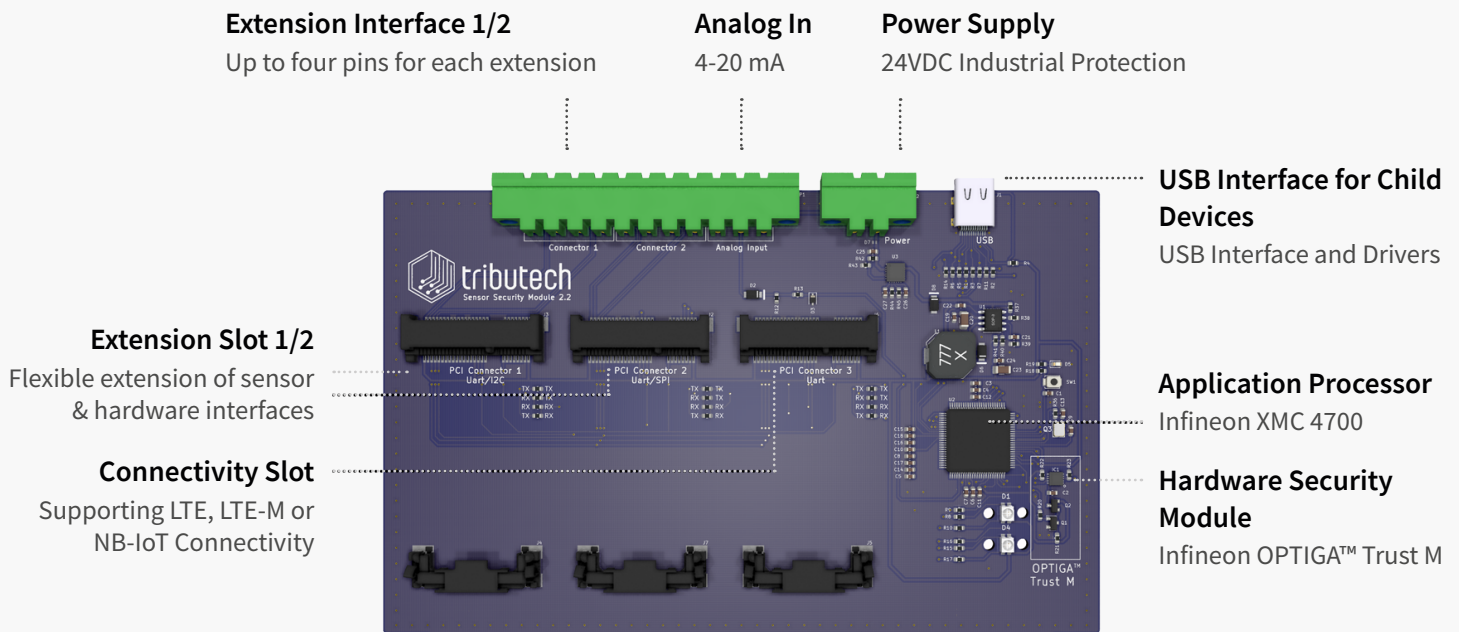


# Sensor Security Module

## TURNING DATA INTO FACTS

The **Tributech Sensor Security Module** is designed to enable the highest possible customization while minimizing the implementation effort required to integrate new sensors or protocols for embedded systems applications. Combined with the included connectivity and data management solution, enterprises or startups can build smart and connected solutions.

It integrates Infineon's OPTIGA™ Trust M chip for providing a blockchain-based trust layer directly from the data source and across all infrastructure layers to the data consumer. It provides reliable and auditable records of sensor and process data, even when transferred cross-company. Once a record is secured, data consumers can verify/audit the proof of origin, integrity, and ownership at any point in time - from near real-time to years after the data generation.



## Highlights

- ✓ Trustworthy Sensor-Data-as-a-Service with included blockchain service
- ✓ High-end hardware security solution including Infineon OPTIGA™ Trust M
- ✓ Included 4G LTE Connectivity
- ✓ USB C interface for connecting sensor boards
- ✓ 3 x PCIe Express Slots for individual customization

# Technical Specifications

Housing dimensions (H x W x D)	87 x 156 x 23mm
IP Code	IP20
Operating temperature	-40°C .... +55°C
Humidity (at 40°C)	93% (non-condensing)
Power Supply	12-24 VDC
Processor	ARM® Cortex®-M4
Interfaces	USB C interface for connecting sensor boards
	Analog Input 4-20mA
	PCIe Extension Slot 1 with UART and I2C
	PCIe Extension Slot 2 with UART and SPI
	PCIe Extension Slot 3 for LTE, LTE-M or NB-IoT
Hardware Security Module	Infineon OPTIGA™ Trust M
Security Capabilities	Generation of cryptographic quality seals for each data package, data audit and verification service (DataSpace Kit)
	Integration into blockchain-based trust layer
	End-to-end encryption for all connectivity channels
	Secure provisioning service
	Integration into DataSpace Kit PKI
Connectivity	Shipped with LTE Cat 4 module 10/5 or 150/50 Mbps
Customization / Expandability	Design your own interfaces and sensors via flexible PCIe Express Modules
Plug & Share	Supported sensor modules or data streams that are provided via the USB interface can be visualized and shared out of the box
DataSpace Kit Support	The Sensor Security Module supports the integration into your DataSpace Node

# Extension Modules



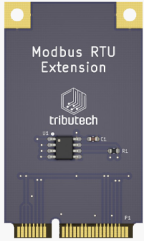
LTE



LTE-M



NB-IoT



Modbus RTU



SPI



I2C