

# Sensor Security Module

## TURNING DATA INTO FACTS



The **Tributech Sensor Security Module** is an Industrial IoT Device and Gateway that 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

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## 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 Express Slot 1 with UART and I2C
	PCIe Express Slot 2 with UART
Hardware Security Module	PCIe Express Slot 3 with UART and SPI
	Infineon OPTIGA™ Trust M
	Generation of cryptographic fingerprints for each data package, data audit and verification service (DataSpace Kit)
Security Capabilities	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
	Optional NarrowBand IoT connectivity
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