**DESCRIPTION**

The Modular Access Unit is the main component of the system. It can consist of different modules for power supply, communication and control of swing handles. Obligatory for operation is the Main Control Module, one Power Module and one Communication Module. However, the system also supports the simultaneous transmission of opening commands via several communication modules. In addition, it can also control locations which are equipped with more than one lock by upgrading with additional swing handles control units.
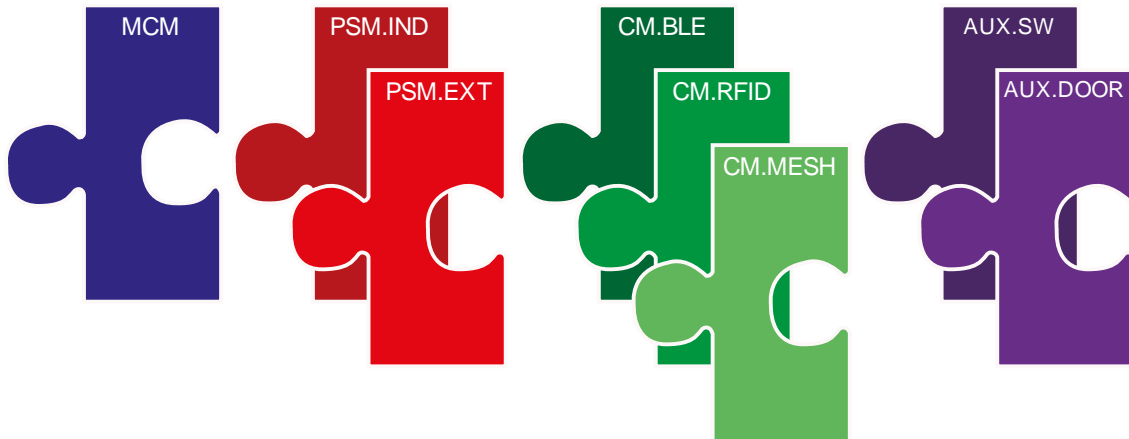
SPECIFICATIONS

GENERAL INFORMATION	
Product Name	Modular Access Unit

AVAILABLE MODULES	
Main	Main Control Module (MCM)
Power Supply	Inductive Power Module (Limited to 12V Swing Handles) (PSM.IND)
Power Supply	12V – 48V External Power Module (PSM.EXT)
Communication	Bluetooth® Low Energy Module (CM.BLE)
Communication	RFID Module (CM.RFID)
Communication	IEEE 802.15.4 Meshed Network Module (CM.MESH)
Auxiliary	Additional Swing Handles (AUX.SW)
Auxiliary	Door Opening Modules (AUX.DOOR)

COMPATIBLE SWING HANDLES	
EMKA	Swing handle 1317 (12V or 48V) P/N On Request
DIRAK	MLE1102 (12V) P/N 602-8007.00-00012 MLE1102 (48V) P/N 602-8005.00-00000

TECHNICAL SPECIFICATIONS	
Operation temperature	-40°C – 105°C
Dust and water protection	IP20
Weight	250g
Dimensions	150mm x 120mm x 45mm
Product Certification	CE (RED), Bluetooth® SIG (if applicable)

ORDERING INFORMATION	
Ordering code	KTS-LOCK-MAU-<PSM>-<COM1>[-<COMn>-][-<AUXn>] <PSM>: Power Supply Module <COMn>: One or more Communication Modules <AUXn>: Optional Auxiliary Module

APPLICATION EXAMPLES

Configurations for three typical applications are listed below.

I. Offline system in a passive outdoor application

This configuration is representative for a FTTH (fiber-to-the-home) deployment with street cabinets or manholes containing pure fiber optic telecommunication equipment.

The Modular Access Unit consists of Main Control Module, a Power Supply Module for inductive operation and a Bluetooth® Low Energy Module enabling the communication with a smartphone.

The neccessary power is provided by the operator using the KTS Power Supply Unit. The access is gained using the KTS Lock App on an iOS or Android device. The operator's device is also used to report the successful opening / closing of the cabinet to the network operator.

Due to constraints on the power supply side, this configuration is limited to 12V swing handles only.
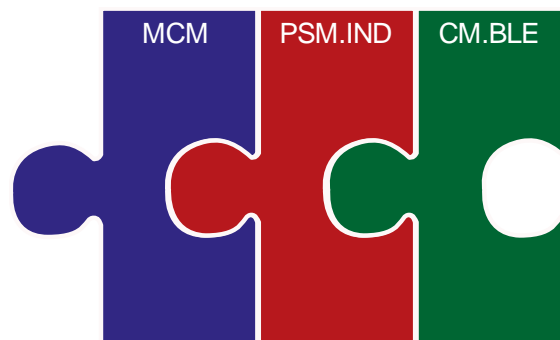
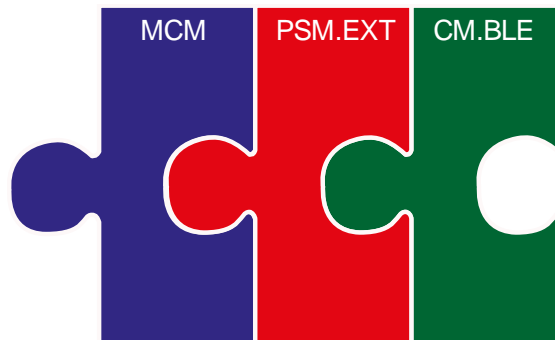The ordering code for the described configuration is **KTS-LOCK-MAU-PSM.IND-CM.BLE.**

II. Offline system in an active outdoor Application

This example demonstrates the configuration suitable for a FTTH (fiber-to-the-home) deployment with street cabinets containing active equipment or typical FTTC (fiber-to-the-curb) or FTTB (fiber-to-the-building) installations.

The Modular Access Unit consists of Main Control Module, a Power Supply Module for 12V-48V DC current (48V is a typical voltage in this kind of networks) and a Bluetooth® Low Energy Module enabling the communication with a smartphone.

Same like in example above the access is gained using the KTS Lock App on an iOS or Android device. The operator's device is also used to report the successful opening / closing of the cabinet to the network operator.

This configuration allows the utilization of 12V and 48V swing handles.

The ordering code for the described configuration is **KTS-LOCK-MAU-PSM.EXT-CM.BLE.**

III.   Online system in an indoor application

This example shows the configuration used to control access to a warehouse.

The Modular Access Unit consists of Main Control Module, a Power Supply Module for 12V-48V DC current, a RFID Module supporting Mifare® DESFire smart cards, a 802.15.4 Meshed Network Module to enable online access to the system and a module to control the rolling gates.

The user gains access using a Mifare® DESFire card or a active transponder based on IEEE 802.15.4 Meshed Network technology.
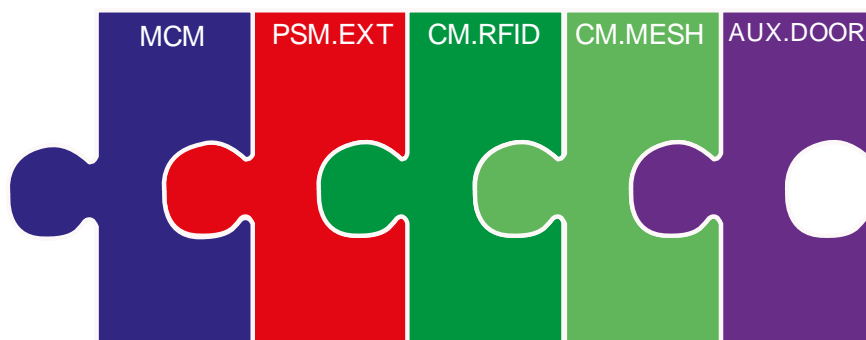
The ordering code for the described configuration is **KTS-LOCK-MAU-PSM.EXT-CM.RFID-CM.MESH-AUX.DOOR.**