Access Compact Modules
Security and Flexibility

Access Compact modules offer the highest security level on the market for OEM manufacturers. Well documented features of Access Compact modules enable the OEM manufacturers a short time to market with the support for popular MIFARE® DESFire and MIFARE® Classic RFID technologies. Idesco's MIFARE® DESFire products are an excellent choice for modern multi-applications with high requirements for both security and configurability.

Access Compact modules are freely configurable enabling the customer to build their own applications flexibly. Access Compact modules read application specific data from one or more selected applications and files of MIFARE® DESFire transponders. Alternatively, for maximum security, the modules can be set to send out the data string combined from several data blocks stored in different files.

Authentication keys can also be defined independently for different files (max 7 keys). A MIFARE® DESFire configuration card defined by Idesco or customer is used for programming the required reader outputs, application specific AES or triple DES keys, application AIDs and the file numbers to be read. Also the data length can be defined according to individual application demands. In case there is no defined application in the card the reader can also be configured to send out the 7 byte serial number of the MIFARE® DESFire transponder.

Access Compact modules have three operation modes: MIFARE® DESFire, MIFARE® Classic (1k and 4k) and a dual mode. The dual mode means that the reader supports the full functionality of both the MIFARE® Classic and MIFARE® DESFire simultaneously. This feature makes the Access Compact module an ideal choice for upgrading MIFARE® Classic installations to MIFARE® DESFire.

Specifications

Operating frequency	13,56 MHz
Voltage	24VDC (+5VDC .... +30VDC) with cable length longer than 100 meters (+10... +30 VDC)
Current consumption	20 mA @ 24 VDC, max 60mA
RFID chip support	MIFARE® DESFire: UID + Application files, MIFARE® Classic: UID + Sectors, MIFARE® Ultralight UID, MIFARE® Plus UID, MIFARE® SmartMX
Encryption	AES or triple DES
Interfaces	USB, RS-232, Wiegand, RS-422
Dimensions of modules (hxwxd)	39 x 41 x 6 mm
Operating temperature	-40…+55 °C, storage -40...+55 °C
Field strength	According to EN300330
EMC	Meets CE requirements

Eco 20 is a new generation of Idesco products. Eco 20 stands for less power consumption, improved connectivity with other products and smaller carbon footprint through sustainable manufacturing materials and methods. **www.idesco.fi/eco20**