MTech V3 Reader

Product Sheet EN MTech Reader VG3

Secure Access Control Including Mobile ID & BLE

The MTech VG3 reader series is compatible with Secure RFID technologies, NFC and open BLE solutions with Mobile keys. The reader is powerful enough to read up to 8 different technologies or formats simultaneously, along with customized formats, making the MTech VG3 readers some of the most powerful on the market while also future proofing it as an access control reader.

All readers incorporate a robust, timeless design, making them suited for both indoor and outdoor installations in all kinds of access control applications. MTech VG3 is a reader operating at 13.56Mhz RFID technologies - together with Mobile solutions and BLE/NFC support. MTech VG3 readers support MIFARE Classic®, MIFARE Plus® and MIFARE DESFire CSN/UID® and applications, Random UID, iCLASS UID and Bitwards mobile application. This makes it an ideal choice for use where several card populations with different RFID technologies should be used simultaneously, or allowed a controlled upgrading to more secure applications together with mobile solution.

Standardized communication as Wiegand and OSDP are used between the reader and the access control application and can be encrypted with OSDP Secured channel function.

MTech VG3 is available both with or without keypad, the version with the keypad having backlit keys, which are configurable. The substantial LED frame provides visual indicators for the user, while the buzzer provides an audible indicator.
Both the LED and the buzzer are configurable.

MTech VG3 readers are Mobile ID ready with a non-proprietary solution. Easy to adapt to all access control applications.

Technical Specifications

Model Name	Standard PIN	Standard NO PIN	Slim PIN	Slim NO PIN	Combi PIN	Combi NO PIN
Operating Frequency	13.56MHz				13.56MHz + 125kHz	
Reading Technologies	BLE/NFC, MIFARE CSN 4 byte, MIFARE CSN 7 byte, MIFARE Classic, MIFARE Plus, MIFARE DESFire 0.6 and MIFARE DESFire EV1, MIFARE DESFire EV2[1], MIFARE DESFire EV3[1] and MIFARE Random UID. ICLASS UID ISO14443B. Also supports other ISO 14443 A/B[2] compatible cards.				BLE/NFC, Electromarine EM4200. HID Proximity. MIFARE CSN 4 byte, MIFARE CSN 7 byte, MIFARE Classic, MIFARE Plus, MIFARE DESFire 0.6 and MIFARE DESFire EV1, MIFARE DESFire EV2[1], MIFARE DESFire EV3[1] and MIFARE Random UID. ICLASS UID ISO14443B. Also supports other ISO 14443 A/B* compatible cards.	
Secure Access Module	MIFARE SAM AV2, external SIM card connection slot.					
Reading Output Format	Wiegand, Clock/Data, OSDP 1, OSDP 2 (including Secure channel), RS232 and RS485					
Reading Output Format	24-1024 (excluding parity bits)					
Keypad Output Format	Wiegand 4bit, Wiegand 8bit (Dorado), Wiegand 26bit, OSDP ASCII format.					
Keypad	12 digit keypad in 4 rows of 3 keys in each row.[3]		12 digit keypad in 6 rows of 2 keys in each row.[3]		12 digit keypad in 6 rows of 2 keys in each row.[3]	
Indicators	LED, Green, Red and Yellow (Bi-color). Backlight in blue color. Buzzer.					
Power Supply	9 – 30VDC					

Technical Specifications

Current Consumption	24VDC idle mode with heater inactive 40-60 mA[4] 12VDC, idle mode with heater inactive 50-90 mA[4]		
Input/Output	4 input for LED and buzzer and 2 configurable input/output		
Tamper Alarm	Built-in mechanical tamper switch which allows for indication break off protection and/or opening of the reader		
Operating Temperature	–40° – +70°C		
Heater	Thermostat controlled embedded heater		
Operating humidity	0 – 95% RHNC (Relative Humidity No Condensation)		
Ingress Protection Classification	IP 54 or IP 65 (with climate protection SC9901)		
Housing Dimensions	L=109mm, H=25mm, W=79mm	L=141mm, H=25mm, W=48mm	L=109mm, H=25mm, W=79mm
Configuration Methods	Configuration card, reader tool software or factory configured readers		

[1] Application coding must be in accordance with EV1.
[2] Not all ISO14443 B cards have been implemented in the reader, please contact Keri Systems for more details on current status. MIFARE is a registered trademark of NXP B.V. and is used under license.
[3] With configurable backlight in blue color. Control features On/Off/Auto indicators. Light itensity can be adjusted.
[4] Current consumption differs depending on functionality used and can also be limited in the reader configuration, please consult the MTech Standard full installation guide for current consumption, before dimensioning power supply.