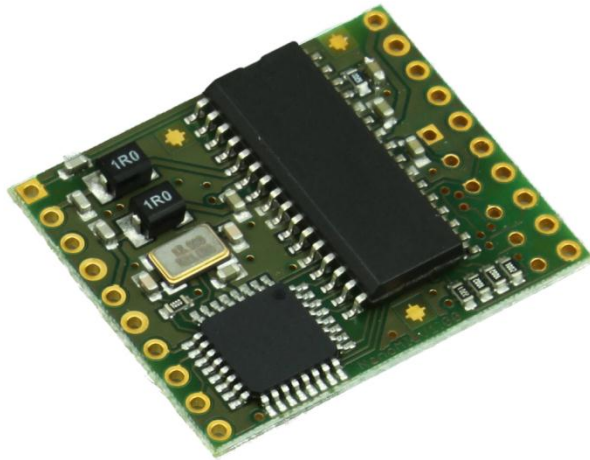


Nano Module Multi ISO

13.56MHz Contactless Reader/Writer



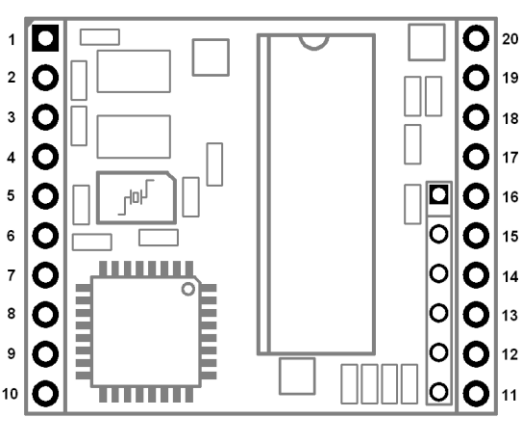
Elatec's Nano Module Multi ISO is designed for integration into machines, handheld computers or any other device. The focus has especially been set on size, price and flexibility.

Thanks to its compact dimensions, integration directly on a PC board is possible.

Outstanding features are: 4 user-configurable ports (to be configured as input or output), beeper support and different sleep modes for lowest power consumption. The simple ASCII or binary protocol enables quick software development cycles. All host communication is done via serial TTL interface. The module is prepared for connection of a Secure Access Module (SAM) to achieve maximum flexibility and security features.

Technical Data			
Housing	without		
Frequency	13.56 MHz		
Dimensions (L x W x H)	30.48mm x 25.40mm x 4mm / 1.20inch x 1.00inch x 0.15inch		
Power Supply	5.0 V DC+/-10%		
Current Consumption	Power down: <300uA RF field off: 20mA RF field on: typically 120mA, depending on antenna		
Temperature Range	Operating: -25°C up to +80°C (-13°F up to +176°F) Storage: -40°C up to +85°C (-40°F up to +185°F)		
Relative Humidity	5% to 95% non-condensing		
Antenna	To be connected externally		
Read- / Write distance	Proximity, depending on antenna and tag		
Transponders Supported	ISO14443A	ISO14443B	ISO15693
	<ul style="list-style-type: none"> • Mifare® <ul style="list-style-type: none"> - Classic 1k, 4k, Mini - DESfire EV1 - Pro X - SmartMX - Plus S, X - Ultralight, Ultralight C • SLE44R35, SLE66xx • my-d move • Legic® Advant¹⁾ 	<ul style="list-style-type: none"> • Calypso • CEPAS • Moneo • SRI512, SRT512 • SRI4K, SRIX4K 	<ul style="list-style-type: none"> • EM4033 • EM4133, EM4233 • EM4135 • ICODE SLI • Inside Picopass¹⁾ • HID® iClass¹⁾ • Legic® Advant¹⁾ • my-d • Tag-it
Certification	RoHS compliant		
Weight	Approx. 3g		
Order Code	ART12607		

¹⁾UID Only

Schematically picture (component side)	Pinning		
 <p style="text-align: center;">Pin spacing 2,54mm</p>	Pin	Name	Description
	1	AntRX	Antenna receiver input
	2	AntTX1	Antenna transmitter output 1
	3, 20	VCC	5V
	4, 6, 19	GND	Ground
	5	AntTX2	Antenna transmitter output 2
	7	SAM_Clk	SAM module clock
	8	SAM_IO	SAM module data I/O
	9	SAM_Reset	SAM module reset
	10	NC	Not connected
	11	RXD	RS-232 receiver input
	12	TXD	RS-232 transmitter output
	13	GPIO0	General purpose input/output 0
	14	GPIO1/ Beeper	General purpose input/output 1, connection port for beeper
	15	Reset	Asynchronous reset
	16	NC	Not connected
	17	GPIO2	General purpose input/output 2
	18	GPIO3	General purpose input/output 3

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