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What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Active
Core Processor	PIC
Core Size	8-Bit
Speed	25MHz
Connectivity	I ² C, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, HLVD, POR, PWM, WDT
Number of I/O	25
Program Memory Size	16KB (8K x 16)
Program Memory Type	FLASH
EEPROM Size	256 x 8
RAM Size	768 x 8
Voltage - Supply (Vcc/Vdd)	4.2V ~ 5.5V
Data Converters	A/D 10x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	28-VQFN Exposed Pad
Supplier Device Package	28-QFN (6x6)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/pic18f2420-e-ml

RIDERSERIES RT314110 110VDC 1CO

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-2083
www.weidmueller.com



Weidmüller RIDERSERIES relays guarantee a noise-free, decoupled signal transmission in industrial automation concepts.

They are available in various forms, are quickly installed, are compact, and can be fitted in the smallest of spaces.

- 1 or 2 NO contacts
- 1, 2, 3 or 4 changeover contacts
- optionally available with hard gold-plated contacts

General ordering data

Order No.	4058500000
Part designation	RT314110 110VDC 1CO
Version	RIDERSERIES, Relays, No. of contacts: 1, CO contact, Rated control voltage: 110 V DC, Plug-in connection
GTIN (EAN)	4032248189304
Qty.	20 pc(s).

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Technical data

Dimensions

Length	29 mm	Width	12.7 mm
Height	19.5 mm	Weight	14 g

Temperature

Ambient temperature (operational)	-40 °C...+85 °C	Storage temperature	
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Input

Rated control voltage	110 V DC	Power rating	400mW // 0.75VA
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Output

Continuous current	16 A	Duration of Bounce	Shutter/break contact element: typ.1/3ms
Max. switching current	16 A	Min. switching current	10 mA
Sparkover time / Drop-out time	DC coil: typ. 7/3 ms // AC coil: 9/45 ms	Switching voltage AC, max.	250 V
max. switching capacity	4 kVA	min. switching capacity	100 mW

Contact data

Contact design	CO contact	No. of contacts	1
Contact material	AgNi 90/10	Mechanical service life	3 x 10 ⁷ switching cycles

Rated data

Conductor connection system	Plug-in connection	Flammability class UL 94	V-0
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Insulation coordination (EN 50 178)

Dielectric strength for control side - load side 5 kV	Protection class	IP 40
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Other technical data

Version	Relay coupler
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Approvals

Approvals institutes

Classifications

ETIM 2.0	EC001437	ETIM 3.0	EC001437
eClass 5.1	27-37-16-01	eClass 6.0	90-27-14-01

RIDERSERIES RT314110 110VDC 1CO

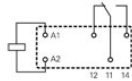
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Drawings

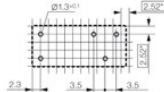
Electric symbol

PCB layout / terminal assignment
View on solder pins,
dimensions in mm

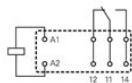
1 C/O changeover contacts



12 A, Pinning 3.5 mm



1 C/O changeover contacts



16 A, Pinning 5 mm

