

VEICHI

Suzhou Veichi Electric Co., Ltd

No.1000 Songjia Road, Guoxiang street, Wuzhong Economic and Technological Development Zone, Suzhou

Tel: +86-512-6617 1988 Fax: +86-512-6617 3610 Facebook: https://www.facebook.com/veichigroup Whatsapp: +86- 138 2881 8903 Https://www.veichi.org/



UTICIAL WEDSITE *Version: June, 2023 Veichi Electric Co., Ltd all rights reserved, subject to change without notice.





Veichi (stock code: 688698) has always committed to electric drive and industrial control since it's foundation. As an all-round company engaged in R & D, manufacturing and sales on high-tech industrial automation products, Veichi has been identified with several honorary titles such as Jiangsu Provincial-level Enterprise Technology Center, Jiangsu Private-own Technical Enterprise, Specialized and Sophisticated Enterprises That Produce New and Unique Products, Jiangsu Engineering Research Center, Jiangsu New and High-tech Enterprise and Suzhou City-level Gazelle Company (High Growth Enterprise) and has obtained the highest level of enterprise credit. Through years of independent research and development, Veichi now has been authorized with patents totaling 148 by the end of December, 2022, and among them 36 are for invention. Having established R & D center and manufacturing bases in Suzhou, Shenzhen and Xi'an, added with the wholly-owned subsidiary in India, Veichi now are dealing with customers from several nations and regions and has the full capability to provide safe, competitive and trustworthy products and services to customers from the larger world.

Veichi provides various products including inverters from 0.4kW to 5,600kW, servo systems from 50W to 200kW, motion controllers, PLC and HMI, which are applied in all sorts of fields like lifting, mining, rail traffic, machine tools, compressors, plastic equipment, photo-voltaic pumping, construction, robots/mechanical arms, printing and packaging, chemical fibers for textile use, metallurgy, municipal works, petrol work and chemical engineering.

on China mainland and Hong Kong, Macao and Taiwan regions, which guarantees a massive and efficient network for sales and services for our customers.

Veichi will continue to abide by the operation philosophy, that is, guided by market demand and driven by technological innovation, enlarge and enhance its core business like inverters, servo systems, control systems and SIoTs. And Veichi will always be devoted to providing quality products and services for customers and further make contributions to the development of electric drive and industrial control.

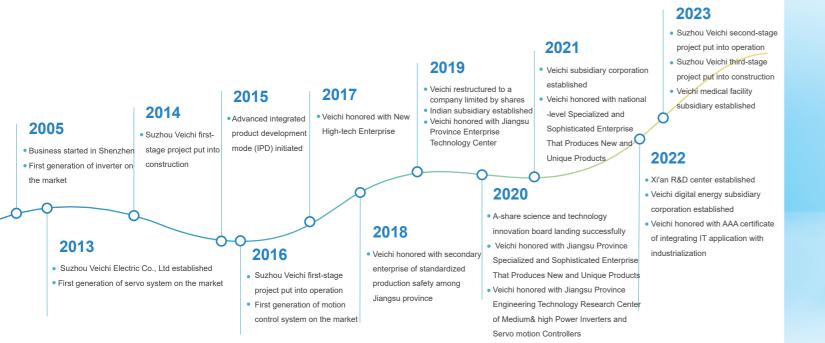
Light and thin

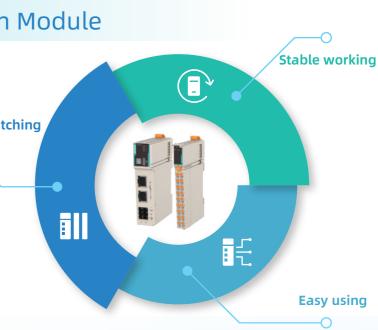
VM-Series Remote Extension Module

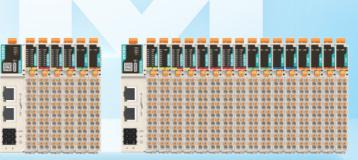
VM series remote module is the new generation among extension modules from Veichi, featuring light weight, fast signal acquisition, easy assembly, and high reliability. It is suitable for common bus networks with microsecond-level response speed. VM series remote modules are available in a wide range of models, added with its excellent continuous operation performance and high responsiveness, to meet the various needs of industrial control automation.

Free matching

ł T







Rich modules Rich combinations

Lighter, faster, more credible new generation distributed remote modules

VM-Series remote extension module models



Max 16 modules supported

=	~~	_



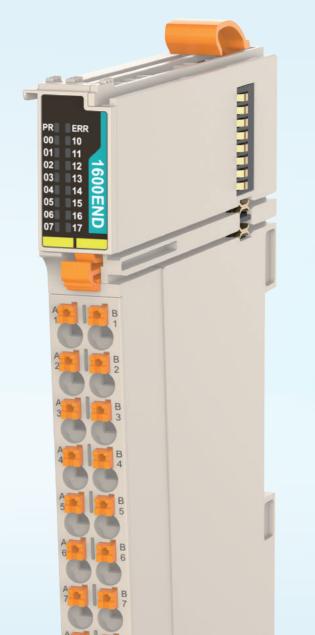
New generation of bus



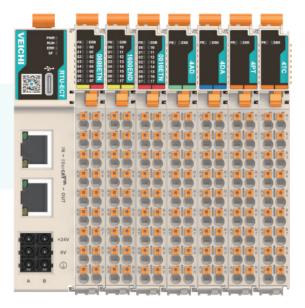
2/3 cabinet space saved off



D-BUS with two sides of the connecting fingers attached together for higher stability



Model	
VM-RTU-ECT	Programmable control
VM-RTU-PN	Programmable control
VM-1600END	16-way digital input m
VM-0800END	8-way digital input mo
VM-0016ETN	16-way digital transist
VM-0016ETP	16-way digital transist
VM-0808ETN	8-way digital input mo
VM-0808ETP	8-way digital input mo
VM-0008ETN	8-way digital transisto
VM-0008ETP	8-way digital transisto
VM-4AD	4-way analog input m
VM-4DA	4-way analog output r
VM-4PT	4-input RTD temperatu
VM-4TC	4-input RTD temperatu



Description

oller EtherCAT (auto-scan) communication module: coupler

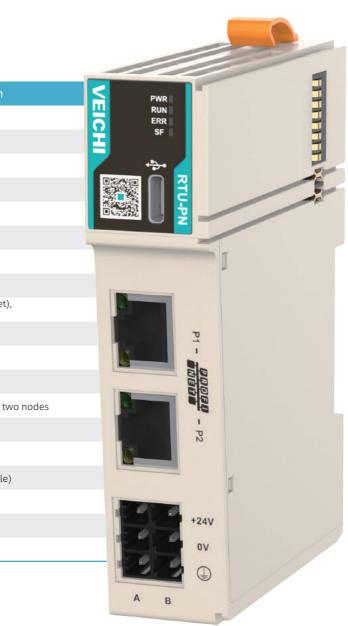
- ollers PROFINET communication module : coupler
- nodule
- odule
- tor NPN output module
- tor PNP output module
- odule and 8-way digital transistor NPN output module
- odule and 8-way digital transistor PNP output module
- or NPN output module
- or PNP output module
- nodule
- module
- ure detection module
- ure detection module

VM-RTU-ECT communication interface module

			2
ltem	Description	S PWR	
Extension No.	16 including IO and special modules		
Backplane bus	VBUS, Veichi-defined	SF	
ackplane speed	100M	- ÷	
Communication period	Min. 125 microseconds		
ackplane bus ompatibility	Compatible communication protocol between remote module and local module		
ackplane ommunication method	Hand-in-hand express forwarding		
therCAT interface	IN: EtherCAT input port	1	
	OUT : EtherCAT output port connected to EtherCAT slave		
put power rated oltage to terminal	24V DC (20.4V DC~ 28.8V DC)		
put power rated urrent to terminal	0.6A (typical at 24V)		
ower output derating	85% derating at 55°C		
olation	24V not isolated from the digital circuit, digital circuit isolated from analog circuit	EtherCAT	
ower protection	Overcurrent protection, anti-reverse connection protection, surge absorption		
lias access	Support alias access for ECTA, and setting site alias in the background for ECT. Alias access and setting for the extension module connected behind ECT is not supported. Range: 1~65535	- OUT	
nput PDO number	Max. 1024 bytes		_
utput PDO number	Max. 1024 bytes		1
iput mailbox	Max. 256 bytes	+24V	
Output mailbox	Max. 256 bytes	DV DV	
) mapping	Bit-by-bit access, byte-by-byte access, word-by-word access	1970	
nutdown output mode	Output by fault stop status mode and preset value, no more refreshing		

VM-RTU-RN communication interface module

Item	Description
Communication mode	RT mode
Min. communication period	1ms
I&M data	1&M -1&M3
PROFINET version	V2.3
Extendibility	16 modules
PROFINET interface No.	2
PROFINET switch function	Networking
Physical layer	100BASE-TX
Communication rate	10 Mbit/s (standard Ethernet) 100 Mbit/s (PROFINET)
Communication method	Full-duplex
Тороlоду	Linear, star, tree
Transmission medium	Cat 5 and above
Transmission distance	Below 100 meters between tw
Prior start	Supported
Port disabling	Supported
No configuration required for device replacement	Supported (same PN module
Main module reset	Supported
Module reset	None
Main module firmware upgrade	Supported



Digital input module specification

VM-1600END

16-way digital input module

VM-0800END

8-way digital input module

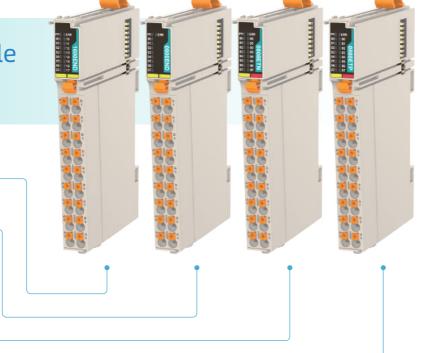
VM-0808ETN

8-way digital input module 8-way digital transistor NPN output module

VM-0808ETP

8-way digital input module8-way digital transistor PNP output module

Item	Description
Signal input method	Source/Drain setting via S/S terminal
Isolation requirement	Insulated isolation with opto-coupler
Input voltage	24Vdc
Input current	Typical 4mA
Input impedance	Reference value 6k
ON voltage	>15V DC
OFF voltage	<5V DC
Response time	100us
Software filter time	Filter time group selection (none 0.25ms, 0.5ms, 1ms (factory setting), 2ms, 4ms, 8ms, 16ms, 32ms)
Ambient working temperature	-20°C~55°C
Rated current of bus input power supply	100mA (typical at 5V DC)
Module hot-swapping	None

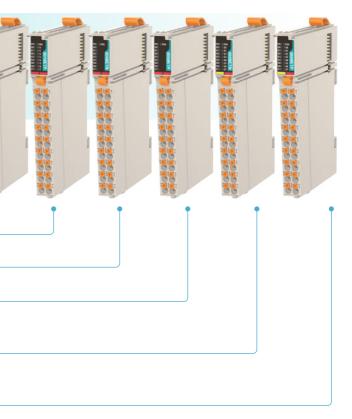


Digital output module specification

VM-0016ETN 16-way digital transistor NPN output module
VM-0016ETP 16-way digital transistor PNP output module
VM-0008ETN 8-way digital transistor NPN output module
VM-0008ETP 8-way digital transistor PNP output module
VM-0808ETN 8-way digital input module 8-way digital transistor NPN output module
VM-0808ETP

8-way digital input module 8-way digital transistor PNP output module

ltem	
Signal output method	Source/Drain on di
Isolation requirement	Insulation isolated
Output voltage	24Vdc
Output load (resistive load)	0.5A/interface, 2A/
Output load (inductive load)	7.2W/ interface, 12
Output load (lamp load)	5W/interface, 9W/r
Response time	100us
Motion indicator	Indicator on when
Leakage current in open circuit	< 0.1mA/30Vdc
Min. load	5mA (5~24Vdc)
Protection	Short-circuit protec
Ambient working temperature	-20°C~55°C
Rated current of bus input power supply	100mA (typical at 5
Module hot-swapping	None



Description

different models

l with opto-coupler Input voltage

A/ module

2W/module

/module

the optocoupler is driven

ection

: 5V DC)

Analog input module specification

Item	Description
Input type	Analog
Isolation requirement	Analog and digital circuits isolated with opto-couplers. Analog internally isolated from input power 24Vdc. No isolation between analog channels
Input method	Voltage / Current
nput channel	4/8
Resolution	16-bit
Switching time	60us/ channel
/oltage input range	±10V, 0~10V, ±5V, 0~5V, 1~5V
oltage input impedance	1ΜΩ
/oltage input accuracy(25℃)	±0.1% (full-scale)
oltage input limit	No disconnection detection
urrent input range	±20mA, 0~20mA, 4~20mA
urrent sampling impedance	250Ω
urrent input accuracy(25℃)	±0.1% (full-scale)
urrent input limit	Instantaneous ±30mA, average ±24mA
urrent input diagnosis	Disconnection detection supported at 4~20mA only
Ambient working temperature	-20°C~55°C
Rated current of bus input power	120mA(typical at 5V DC)
Module hot-swapping	None



Item	Description
Output type	Analog
Isolation requirement	Analog and digital circuits isolated with opto-couplers. Analog internally isolated from input power 24Vdc. No isolation between analog channels
Output method	Voltage / Current
Output channel	4/8
Resolution	16 bit
Switching time	60us/ channel
Voltage output range	±10V, 0~10V, ±5V, 0~5V, 1~5V
Voltage output impedance	ΊΚΩ
Voltage output accuracy (25°C)	±0.1% (full-scale)
Voltage output diagnosis	Short circuit detection, over temperature protection
Current output range	0~20mA, 4~20mA
Current output load	0~600Ω
Current output accuracy (25°C)	±0.1% (full-scale)
Current output diagnosis	Open circuit detection, over temperature protection
Rated current of bus input power	120mA (typical at 5V DC)
Module hot-swapping	None



4-way analog output module

Temperature detection module - RTD input

ltom	Index			
Item	Celsius (°C)		Fahrenheit (°F)	
Input signal	RTD type: Pt100, Pt500, Pt1000, Cu100, KTY84, NTC5K, NTC10K,a total of 4 channels			
Sampling cycle	250ms, 500ms, 1000ms/4 channels (configurable via software)			
	Pt100	-200.0°C ~ 850.0°C	Pt100	-328.0°F ~ 1562.0°F
	Pt500	-200.0°C~850.0°C	Pt500	-328.0°F~1562.0°F
	Pt1000	-200.0°C~850.0°C	Pt1000	-328.0°F~1562.0°F
	Cu100	-50.0℃~150.0℃	Cu100	-58.0°F~302.0°F
	KTY84	0.0°C ~ 200.0°C	KTY84	32.0°F ~ 392.0°F
Rated temperature	NTC5K (B value 2000)	-30.0°C ~ 200.0°C	NTC5K (B value 2000)	-22.0°F ~ 392.0°F
range	NTC5K (B value 3950)	-15.0°C ~ 100.0°C	NTC5K (B value 3950)	5.0°F~212.0°F
	NTC5K (B value 6000)	0.0°C~100.0°C	NTC5K (B value 6000)	32.0°F~212.0°F
	NTC10K (B value 2000)	-25.0°C ~ 200.0°C	NTC10K (B value 2000)	-13.0°F ~ 392.0°F
	NTC10K (B value 3950)	0.0°C~150.0°C	NTC10K (B value 3950)	32.0°F ~ 302.0°F
	NTC10K (B value 6000)	6.0°C~100.0°C	NTC10K (B value 6000)	42.8°F~212.0°F
Min. resolution	0.2℃, 0.36°F			
Precision	±0.5% of full scale			
Isolation	Analog and digital circuits isolated with opto-couplers. Analog internally isolated from input power 24Vdc. No isolation between analog channels 5V DC (DC4.75V DC- 5.25V DC) 120mA (typical at 5V DC)			
Rated voltage of bus input power				
Rated current of bus input power				
Module hot-swapping	None			



ltem	Index				
item -	Celsius (℃)		Fahre	Fahrenheit (°F)	
eized I/O nodes	None				
nput signal	Thermocouple: K, J, E, N, T, R, S (7 kinds of each channel available), a total of 4 channels				
witching speed	(240±2%) ms × 4 channels (no conversion for disabled channels)				
	К	- 100°C ~ 1200°C	К	- 148°F ~ 2192°F	
	J	- 100℃ ~ 1000℃	J	- 148°F ~ 1832°F	
	E	- 100℃ ~ 1000℃	E	- 148°F ~ 1832°F	
ated temperature	Ν	- 100℃ ~ 1200℃	Ν	- 148°F ~ 2192°F	
-	Т	- 200°C ~ 400°C	Т	- 328°F ~ 752°F	
-	R	0°C ~ 1600°C	R	32°F ~ 2912°F	
-	S	0°C ~ 1600°C	S	32°F ~ 2912°F	
	К	0.8°C	К	1.44°F	
1in. resolution	J	0.7°C	J	1.26°F	
	E	0.5℃	E	0.9°F	
-	Ν	1℃	N	1.8°F	
	Т	0.2°C	Т	0.36°F	
1in. resolution	R	1℃	R	1.8°F	
-	S	1℃	S	1.8°F	
overall accuracy alibration point	±0.5% of full scale				
solation	Analog and digital circuits isolated with opto-couplers. Analog internally isolated from input power 24Vdc. No isolation between analog channels				
ated voltage of bus	5V DC (DC4.75V DC- 5.25V DC)				
ated current of bus	120mA (typical at 5V DC)				
Iodule hot-swapping	None				

Note: both °C and °F data are available via proper settings

4-way input RTD temperature detection module



Manufacturing and Quality Control

Smart manufacturing with whole-process automation

- > On intelligent manufacturing ,the smart factory yields an annual capacity of 600,000 sets;
- > Fully automatic SMT production line, automatic coating line, assembly line, testing line, packaging line, high temperature aging room and advanced production equipment are established;
- > Enterprise production is implemented with target management and is operated in strict accordance with the production process and management methods, which greatly improves the production efficiency.
- > Complete supply chain system meets the large volume of one-time delivery.

Inheriting the spirit of craftsmanship, detail-oriented and striving for better

- > Insist on the quality policy and concept of quality first.
- the ISO9001 quality management system.
- > Talents create high quality, the production line core positions are occupied by 100% college degrees and above.
- be controlled and traced.













 \mathbb{M}

ISO9001:2015 ISO14001:2015 ISO45001:2018

CE certification 3C certification for full series for specialized products

> Procurement, design, manufacturing and other aspects all implemented in strict accordance with the requirements of

> Each product has a unique product code, which can be used in the product traceability system to ensure quality can







RoHS 2.0 for customized products



AAA Certification for Measurement Management System



Five-star certification for after-sales service



QC080000 Management System

Service and Support



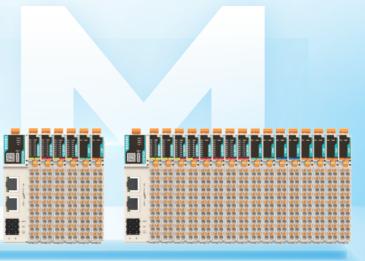
20 service outlets, 182 contracted channels and distribution channels covering 31 provinces, cities, Hong Kong, Macao and Taiwan

Broad

Offices and service outlets established in major cities in Southeast Asia, South Asia, CIS, the Middle East, Europe, Africa and the Americas, and s global service network in progress



Rich modules



Rich combinations