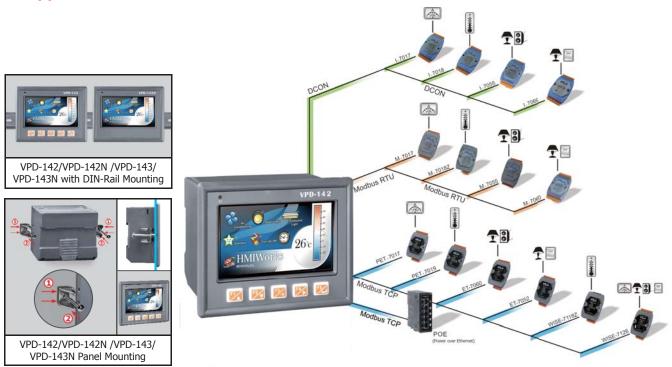


Introduction.

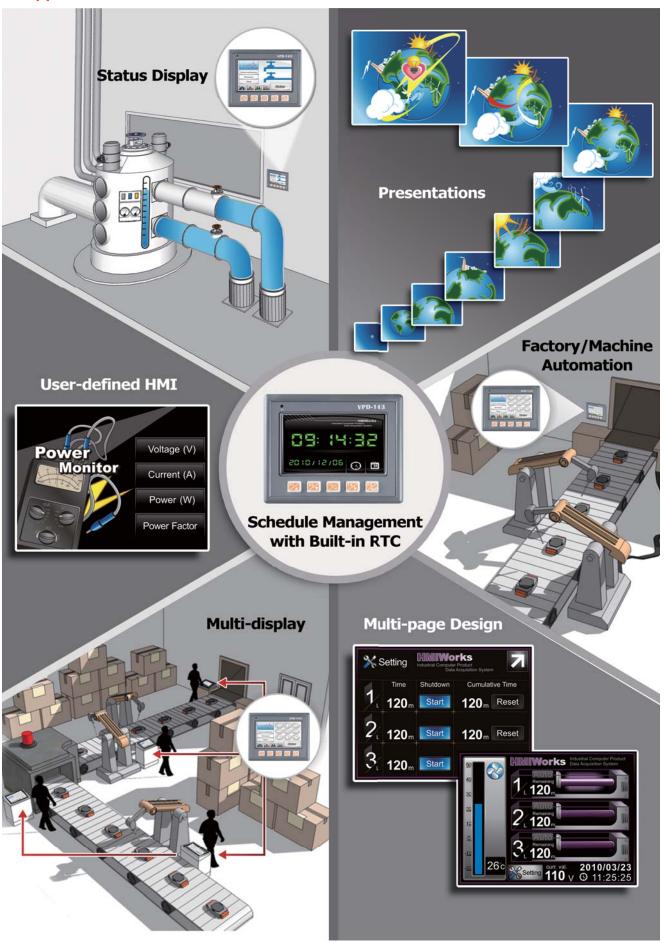
VPD industrial touch HMI device series features, 4.3" high resolution color touch screen LCD. With touchscreen capability, it is easy to deploy into all kinds of automation systems, and make them more intuitive and efficient. Either setup new system installations or complete system retrofits, VPD series stands out for its wide variety of communication methods. Its built-in communication ports include RS-232/RS-485, and Ethernet, USB interface, enable integration into the system allowing users to control, monitor I/O at the remote sides and update firmware directly from the central computer. Besides, the built-in non-volatile storage makes VPD series more reliable for rugged environments.

HMIWorks, the free development software for VPD series, provides an easy-to-use environment, and powerful and intuitive programming with graphic capabilities to let users create appealing graphical interface screens in minutes. For PLC users, HMIWorks provides Ladder Designer and C language environment for IT users. Especially, it only takes no more than 30 minutes to learn how to create an application program when using Ladder Designer. With all the features provided, VPD series touch HMI Devices must be the most cost effective HMI Device ever been in the market.

Applications.



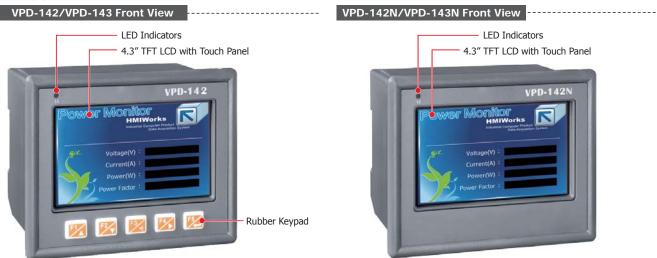
Applications ____



Specifications

Models	VPD-142	VPD-142N	VPD-143	VPD-143N
CPU Module				
CPU	32-bit RISC CPU			
Memory Expansion		16 MB SDRAM	M / 8 MB Flash	
Real Time Clock (RTC)		Y	es	
Buzzer		Y	es	
Rotary Switch (0~9)		Y	es	
Communication Interface	1			
Serial Port 1		One set of RS-232 (3-pin) /	RS-485 (including Self-Tuner)	
Serial Port 2		One set of RS-232 (3-pin) /	RS-485 (including Self-Tuner)	
USB 1.1 Client		Firmware u	ipdates only	
Ethernet		-	RJ-45 x 1, 10	0/100 Base-TX
I/O Expansion				
I/O Expansion Bus	Yes, One of XVboards			
MMI (Main Machine Interface)			
LCD	4.3" TFT(Resolution 480 X 272 X 16), defective pixels <= 3			
Backlight Life	20,000 hours			
Brightness	400 cd/m2			
LED Indicator	Yes	-	Yes	-
Touch Panel	Yes			•
Reset Button	Yes			
Rubber Keypad	5 keys (Programmable)	-	5 keys (Programmable)	-
Electrical	•		•	•
Powered from Terminal Block		+12 ~	48 VDC	
Powered from PoE	- IEEE 802.3af, Class1 (48 V)		, Class1 (48 V)	
Power Consumption	2.5 W			
Mechanical				
Dimensions (W x L x H)	131 mm x 105 mm x 54 mm			
Ingress Protection	Front Panel: IP65			
Installation	DIN-Rail Mounting and Panel Mounting			
Environmental	·			
Operating Temperature	-20 ~ +50 °C			
Storage Temperature	-30 ~ +80 °C			
Ambient Relative Humidity	10 ~ 90% RH, non-condensing			

Appearance _

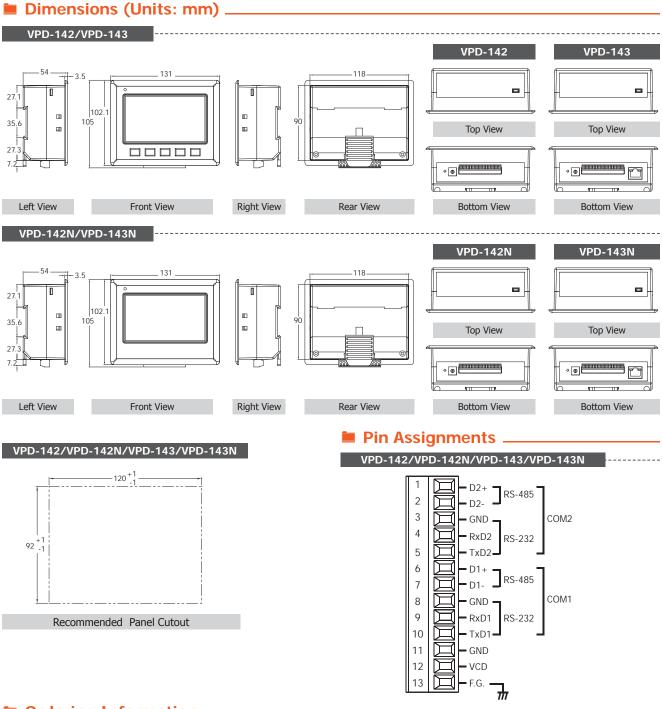


DIO Board						
Model		XV107	XV107A	XV110	XV111	XV111A
Image						
Digital Input						
Channel		8	8	16		
Contact		Wet	Wet	Dry+Wet		
Sink/Source (N	NPN/PNP)	Source	Sink	Sink/Source		
Wet Contact	On Voltage Level		+10 VDC \sim +50 VDC			
Wet Contact	Off Voltage Level		+4 VDC Max.			
Dry Contact	On Voltage Level	-		Close to GND		
	Off Voltage Level	-		Open	_	-
	Max. Count	65535 (16-bit)				
Counters	Max. Input Frequency	100 Hz				
Min. Pulse Width		5 ms				
Input Impedance		10 ΚΩ				
Overvoltage Protection		70 VDC				
Intra-module Isolation, Field to Logic		3750 VDC				
Digital Outpu	ut					
Channel		٤	3		1	6
Туре		Open Collector	Open Emitter		Open Collector	Open Emitter
Sink/Source (NPN/PNP)		Sink	Source		Sink	Source
Load Voltage		+3.5 VDC ~ 50 VDC	+10 VDC ~ 40 VDC	-	+3.5 VDC ~ 50 VDC	+10 VDC ~ 40 VDC
Max. Load Current		700 mA/channel			600 mA/channel	
Overload Protection		1.4 A			1.4	1 A
Intra-module Isolation, Field to Logic		3750 VDC			3750 VDC	
Power Requi	irements					
Consumption		0.2 W		0.6 W	0.3 W	



Relay output Board				
Model		XV116		
Image				
Relay Output				
Channel		6		
Туре		Form A (SPST N.O.)		
Operating Volta	ge Range	250 VAC or 30 VDC		
Max. Load Current		Relay 0 ~ 1: 2 A Relay 2 ~ 5: 4 A		
Operating Time		Relay 0 ~ 1: 4 ms Max. Relay 2 ~ 5: 5 ms Max.		
Release Time		Relay 0 ~ 1: 6 ms Max. Relay 2 ~ 5: 1 ms Max.		
Mechanical Life		Relay 0 ~ 1: 100 x 10^6 cycles Relay 2 ~ 5: 30 x 10^6 cycles		
On-Resistance		-		
Off-State Leakage Current		-		
Intra-module Isolation, Field to Logic		3750 VDC		
Digital Input				
Channel		5		
Contact		Wet		
Sink/Source (NF	PN/PNP)	Sink/Source		
Wet Contact	On Voltage Level	+10 VDC ~ 50 VDC		
Wet Contact	Off Voltage Level	+4 VDC Max.		
Input Impedance		10 KΩ		
Overvoltage Protection		60 VDC		
Intra-module Isolation, Field to Logic		3750 VDC		
Power Require	ements			
Consumption		1W		

Multifunction Board			
Model		XV308	
Image			
Analog Inpu	t		
Channel		8	
Wiring		Single-Ended	
Sensor Type		+/- 1 V, +/- 2.5 V, +/- 5 V, +/- 10 V, 0 ~ 20 mA, 4 ~ 20 mA, +/-20 mA (Jumper selectable)	
Resolution	Normal Mode	14-bit	
Resolution	Fast Mode	12-bit	
Sampling	Normal Mode	10 Hz	
Rate	Fast Mode	200 Hz	
Input Impeda	nce	10 MΩ	
Overvoltage P	rotection	120 VDC	
Overcurrent P	rotection	1000 mA	
Isolation		2500 VDC	
Digital Input	t		
Channel		4	
Contact		Dry	
Sink/Source (NPN/PNP)		Source	
Wet Contact	On Voltage Level	Close to GND	
Wet Contact	Off Voltage Level	Open	
Overload Prot	ection	30 VDC	
Digital Outp	ut		
Channel		4	
Туре		Open Collector	
Sink/Source (NPN/PNP)		Sink	
Load Voltage		+10 VDC ~ +50 VDC	
Max. Load Current		700 mA/Channel	
Overload Protection		1.4 A	
Power Requ	irements		
Consumption		1 W	



Ordering Information _____

VPD-142 CR	4.3" Touch HMI device with RS-232/RS-485, USB, RTC, Rubber Keypad, support XV-board (RoHS)	
VPD-142N CR	4.3" Touch HMI device with RS-232/RS-485, USB, RTC, support XV-board (RoHS)	
VPD-143 CR	4.3" Touch HMI device with Ethernet, RS-232/RS-485, USB, RTC, Rubber Keypad, support XV-board (RoHS)	
VPD-143N CR	4.3" Touch HMI device with Ethernet, RS-232/RS-485, USB, RTC, support XV-board (RoHS)	

Accessories _____

CA-USB10 USB to 5P Mini-USB, 28AWG, 1.5 m		USB to 5P Mini-USB, 28AWG, 1.5 m
	MDR-60-24 CR	24 VDC/2.5A, 60 W Power Supply with DIN-Rail Mounting (RoHS)
۲	DIN-KA52F CR	24 Voc/1.04 A, 25 W Power Supply with DIN-Rail Mounting (RoHS)