



VP-2111

VH-2110

Features

- 80186, 80 MHz CPU
- C Language Based and MiniOS7 Inside
- 3 I/O Slots
- IP65 Compliant Front Panel
- STN LCD with English and Chinese Fonts
- Rubber Keypad with 24 Keys
- Operating Temperature: -15 ~ +55°C



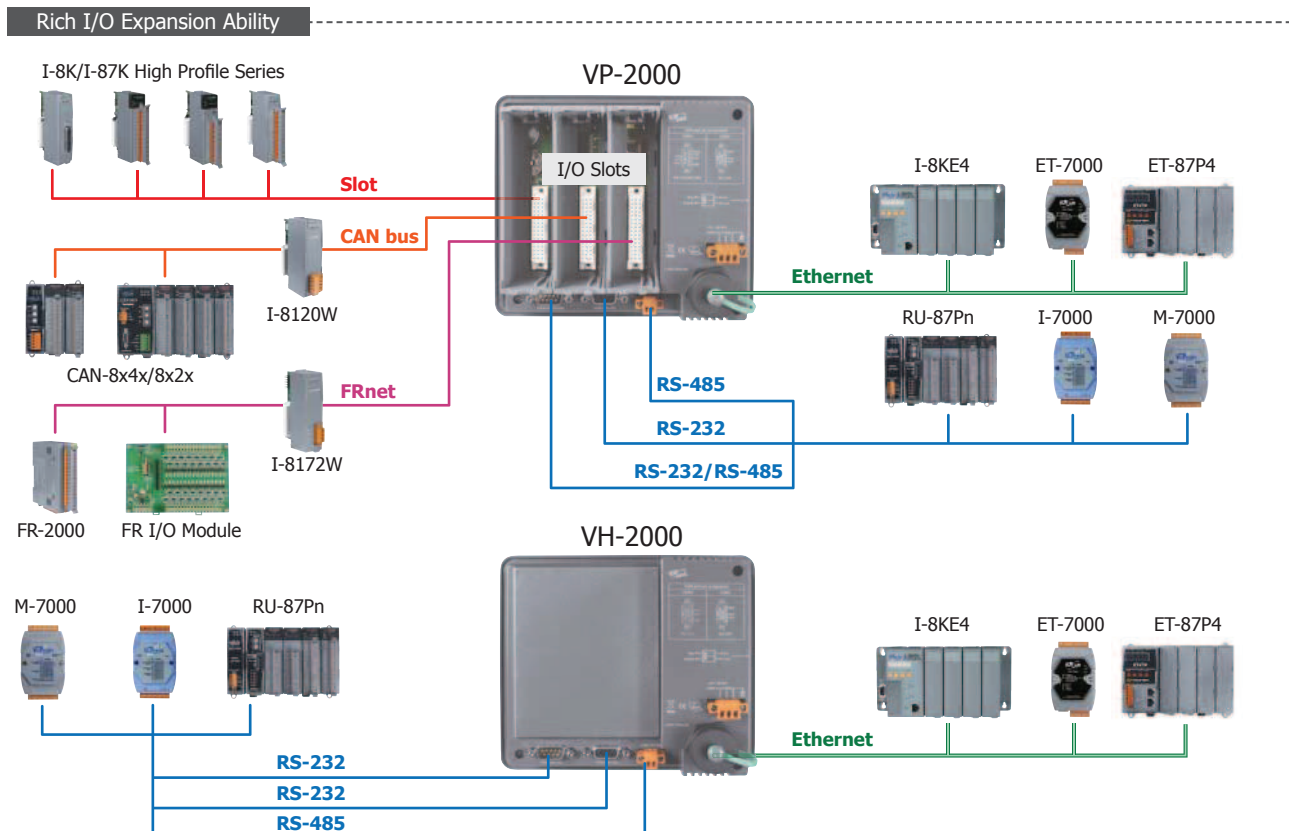
Introduction

The VP-2111/VH-2110 are MiniOS7 based PACs that combine a graphic display and a keypad into a single unit. They are equipped with an 80186 CPU (16-bit, 80 MHz) running a MiniOS7 operating system, several communication interfaces (Ethernet, RS-232/485), three I/O slots (VP-2111), a STN LCD and a rubber keypad.

The MiniOS7 operating system boots up within a very short time (0.4 ~ 0.8 seconds). VP-2111/VH-2110 has a built-in hardware diagnostic function, and supports the full range of functions required to access all high profile I-8K and I-87K series I/O modules, such as DI, DO, DI/DO, AI, AO, Counter/Frequency, motion control modules, etc.

Compared to regular HMI + PLC solutions, VP-2111 and VH-2110 reduce overall system cost and space, and provide all the best features of HMIs and PLCs.

Applications



Specifications

Models	VP-2111	VH-2110
System Software		
OS	MiniOS7 (DOS-like embedded operating system)	
Program Download Interface	RS-232 (COM1) or Ethernet	
Programming Language	C language	
Compilers to create.exe Files	TC++ 1.01; TC 2.01; BC++ 3.1 ~ 5.2x; MSC 6.0; MSVC++ (before version 1.5.2)	
CPU Module		
CPU	80186, 80 MHz	
SRAM	768 KB	512 KB
Dual Battery Backup SRAM	512 KB; data valid up to 5 years	-
Flash	512 KB	
Flash Disk	64 MB NAND Flash	-
EEPROM	16 KB	
NVRAM	31 bytes (battery backup, data valid up to 5 years)	
RTC (Real Time Clock)	Provide second, minute, hour, date, day of week, month, year	
64-bit Hardware Serial Number	Yes, for Software Copy Protection	
Watchdog Timers	Yes (0.8 second)	
Communication Ports		
Ethernet	RJ-45 x 1, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)	
COM 0	Internal communication with the high profile I-87K series modules in slots	
COM 1	RS-232 (RxD, TxD and GND) Program download port; non-isolated	
COM 2	RS-485 (Data+, Data-) with internal self-tuner ASIC; 2500 V _{DC} isolated	
COM 3	RRS-232/RS-485 (RxD, TxD, CTS, RTS and GND for RS-232, Data+ and Data- for RS-485); non-isolated	RS-232 (RxD, TxD, CTS, RTS and GND for RS-232); non-isolated
MMI (Man Machine Interface)		
LCD	STN, 128 x 64 Dot Matrix LCD	
Display Mode	Text + Graphics	
Text Font	English + Simplified Chinese/Traditional Chinese	
Rubber Keypad	24 keys	
Buzzer	Yes	
LED Indicators	3 Dual-Color LEDs (PWR, RUN, LAN1, L1, L2, L3; L1~L3 for User Programmable)	2 Dual-Color LEDs (RUN, LAN1, L1, L2; L1~L2 for User Programmable)
I/O Expansion Slots		
Slot Number	3 (For High Profile I-8K and I-87K Modules Only)	-
Data Bus	8/16 bits	-
Address Bus Range	2 K for each slot	-
Mechanical		
Dimensions (W x H x D)	182 mm x 158 mm x 125 mm	
Installation	Panel Mounting	
Ingress Protection	Front panel: IP65	
Environmental		
Operating Temperature	-15 ~ +55°C	
Storage Temperature	-30 ~ +80°C	
Ambient Relative Humidity	10 ~ 90% RH (non-condensing)	
Power		
Input Range	+10 ~ +30 V _{DC}	+12 ~ +48 V _{DC}
Isolation	1 kV	-
Capacity	15 W	-
Consumption	6 W	3.6 W

Ordering Information

VP-2111 CR	C Language Based ViewPAC with 3 I/O Slots (English + Simplified Chinese Font) (RoHS)
VP-2111-TC CR	C Language Based ViewPAC with 3 I/O Slots (English + Traditional Chinese Font) (RoHS)
VH-2110 CR	C Language Based ViewPAC without I/O Slot (English + Simplified Chinese Font) (RoHS)
VH-2110-TC CR	C Language Based ViewPAC without I/O Slot (English + Traditional Chinese Font) (RoHS)

Accessories

DP-660	24 V _{DC} /2.5 A, 60 W and 5 V _{DC} /0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
MDR-60-24 CR	24 V _{DC} /2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)