PSMC-C301

SMARC 2.0 Compliant Carrier Board with Multiple Displays and 2x GbE Ports

CAN0 (J56A) COM1 (J57A) GBE0 GBE1 DP HD micro
CAN1 (J56B) COM3 (J57B) USB1 USB3 HDMI Audio USB0
                          USB5 USB2 (J62) (J55) (J89)
                          (J82) (J79)

Rear I/O

Portwell's PSMC-C301 carrier board is designed with SMARC 314 pins card edge MXM connector, suitable for initial evaluation testing of SMARC 2.0 modules such as PSMC-M1011.
The PSMC-C301 carrier board provides manufactures and developers with a platform to jump start the development of systems and applications based on SMARC specification.

FEATURES

- Evaluation/Reference Carrier Board for SMARC 2.0 modules
- Including all the SMARC signals to standard interface connectors
- Schematic available for design reference
- Multiple display interfaces
- MIPI (DSI, CSI) interface for camera is reserved

ORDERING GUIDE

Standard	AB7-3078
	PSMC-C301, SMARC 2.0 Carrier Board

GENERAL

SMARC module	Support SMARC 2.0 module
Storage Devices	1x SATA connector 1x SD card slot
Watchdog Timer	Programmable via software
Expansion	1x PCIe x1 1x mini-PCIe/SIM 1x M.2 socket key E (up to 2280)
Dimension	Dimension : 250 mm (L) x 170 mm (W) ; 9.85" (L) x 6.69" (W)
Power Input	ATX power supply (12-24V) 3P Phoenix Connector (9-36V wide range DC input support)
Environment	Operating Temperature: -40°C to +85°C Storage Temperature: -20°C to +80°C
Humidity	10-90% RH operating, non-condensing 5-95% RH storage (and operating with conformal coating)

I/O INTERFACE

Ethernet	2x Gigabit Ethernet over RJ-45 connectors
Audio	1x HDA LINE in/out and MIC with Realtek ALC886 audio controller
USB	1x Micro USB 2.0 connector for OTG 2x USB 2.0 2x USB 3.0
Serial Port	2x RS-232 on box header 2x Rs-232/422/485 on D-SUB9
Others	2x CAN BUS on D-SUB9 (CAN BUS is not supported by PSMC-M1011) 3x GPIO 1x I²S 1x eSPI on header 1x SPI0 on EEPROM socket shared with TPM

GRAPHIC

Display	1x Dual Channel LVDS 24-bit header to support eDP/LVDS/MIPI-DSI 1x Display Port 1x HDMI
Camera	2x MIPI-CSI

*All information provided is subject to change without notice.