

SCM330 NEW

SMARC Module with Intel® Core™/Pentium®/Celeron® or Intel Atom® Processors x7000 Series



Features

- Intel® Core™/Pentium®/Celeron® or Intel Atom® processors x7000 series
- LPDDR5-4800 with IB ECC support, up to 16GB
- Up to 4 lanes of PCI Express
- 1 SATA Gen3
- 2 USB 3.2 Gen.1 and 6 USB 2.0
- Supports eMMC5.1 for up to 128GB of memory
- Supports fTPM
- SMARC2.1.1 pinout compliance

Specifications

Core System

CPU	Intel® Core™/Pentium®/Celeron® or Intel Atom® processors x7000 series
System Memory	LPDDR5-4800 with IB ECC support, up to 16GB
Chipset	SoC integrated
BIOS	AMI uEFI (Legacy free)
Storage	eMMC5.1, up to 128GB
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	3 x PCIe x1 (default) 1 x PCIe x4 or 4 x PCIe x1 (optional)
Battery Lithium	Yes
Power Input	ATX: Vin, VSB; AT: Vin Vin: 4.75 to 5.25V, RTC battery: 2.0V to 3.3V

Display

Display Interface	1 x LVDS; 18/24-bit single/dual-channel (optional eDP 1.4b) 1 x HDMI 1 x DisplayPort/HDMI
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Specifications

I/O

SATA	1 x SATA Gen3
Hardware Monitoring	Yes
Ethernet	2 x 10/100/1000/2500 Mbps Ethernet with Intel® I226 with support for Wake-on-LAN and PXE Boot ROM
Audio	HDA link interface to baseboard for codec
USB	2 x USB 3.2 Gen1 6 x USB 2.0
Serial	4 x UART 1 x SPI 1 x GSPI (optional 1 x eSPI)
TPM	fTPM
SMBus	Yes
Others	2 x I ² C 2 x CANbus
GPIO	7-CH in and 7-CH out (shared with Fan & HDA)
Smart Battery	Yes

Mechanical and Environmental

Dimensions	82 x 50 mm
Board Thickness	1.2 mm
Operating Temperature	Industrial: -40°C to +85°C (-40°F to +185°F) with a system thermal solution Standard: 0°C to +60°C (32°F to +140°F) with operation
Humidity	10% to 95% relative humidity, non-condensing
Vibration Endurance	3.5 Grms

Packing List

Quick installation guide

Ordering Information

Standard

SCM330-i3N305 (P/N: TBD)	SMARC R2.1.1 i3N305 with 16GB RAM, 1 HDMI, 1 HDMI/DisplayPort, 1 LVDS, 64GB eMMC, and two 2.5GbE LAN
SCM330-N97 (P/N: TBD)	SMARC R2.1.1 N97 with 8GB RAM, 1 HDMI, 1 HDMI/DisplayPort, 1 LVDS, 32GB eMMC, and two 2.5GbE LAN
SCM330-x7835RE (P/N: TBD)	SMARC R2.1.1 x7835RE with 16GB RAM, 1 HDMI, 1 HDMI/DisplayPort, 1 LVDS, 64GB eMMC, and two 2.5GbE LAN
SCM330-x7211RE (P/N: TBD)	SMARC R2.1.1 x7211RE with 8GB RAM, 1 HDMI, 1 HDMI/DisplayPort, 1 LVDS, 32GB eMMC, and two 2.5GbE LAN

Optional

TBD	SCM330 heat spreader
TBD	SCM330 heat sink without fan
TBD	SCM330 heat sink with fan

Block Diagram

