SOM-DK2569 Evaluation Kit

Starter kit for SMARC SOM-2569

Features

- SMARC SOM-2569 with Intel® Atom E3950 plus SOM-DB2500
- Dual channel LPDDR4 8 GB memory plus onboard 64 GB eMMC
- Wireless module on board plus integrated dual GbE
- Supports PCIe x1, USB 3.0, USB 2.0, SATA 3.0
- Incudes Win10 and WISE-PaaS/DeviceOn
- Supports iManager APIs

Windows Embedded WISE-DeviceOn iManager CE FC

Specifications

Platform	Module	SOM-2569, SMARC2.0 & SMARC2.1 compliance
	Processor	Intel Atom E3950, 4 Cores, 12W
	Memory	LPDDR4 8GB
	PCI Express	PCIe x1 Gen2 (In PCIe x4 slot)
Ethernet	Controller	Intel I210
	Speed	10/100/1000 Mbps
	Connector (RJ45)	2 x Ports
Serial Bus	SMBus	Yes
	I2C Bus	Yes
I/O	SATA 3.0	1 x Port (6 Gbps)
	USB3.0	1 x USB3.0 (Type A; down) 1 x USB3.0 (Type C)
	USB2.0	1 x Ports (Type A; top) 1 x Ports (Type AB; Client mode by specific OS)
	GPIO	12 x GPIOs
	Watchdog	65536 level, 0~65535 sec
	COM Port	4 x Ports (2 Ports with Tx/Rx and 2 Ports with DTS/RTS from two connectors)
	Onboard Storage	64GB eMMC
	TPM	TPM2.0 (Infineon SLB9665)
	SPI Bus	1 x Socket
	SDIO	1 x Socket Micro SD card by default ; M.2 connector by option
	Wifi / BT Module	1 Wi-Fi / BT Module on SOM-2569 moduel
Graphics	Controller	Intel® HD Graphics 505
	Max. Frequency	650MHz
	Graphic Memory	Intel DVMT5.0
Display	LCD (LVDS/eDP)	LVDS: Dual-channel 18/24-bit, up to 1920 x 1080
	DP++	1 x Port (DP 1.2 ;Up to 4096×2160 @ 60 Hz)
	HDMI	1 x Port (HDMI 1.4b ; Up to 3840x2160 @ 30 Hz)
	USB Type-C	1 x Port (USB 3.0)
	Multiple Display	Triple displays with each display combinations
Power	Type	DCIN
	Supply Voltage	12V
	Power Consumption (Max.)	14.11 W
	Power Consumption (Idle)	3.45 W
Environment	Operating Temperature	0 ~ 60 °C (32 ~ 140 °F)
	Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
	Humidity	Operating: 40 °C @ 95% relative humidity, non-condensing Storage: 60 °C @ 95%relative humidity, non-condensing
Mechanical	Dimensions	304.8 x 190.5 mm for carrier board SOM-DB2500 82 x 50 mm for SOM-2569 module

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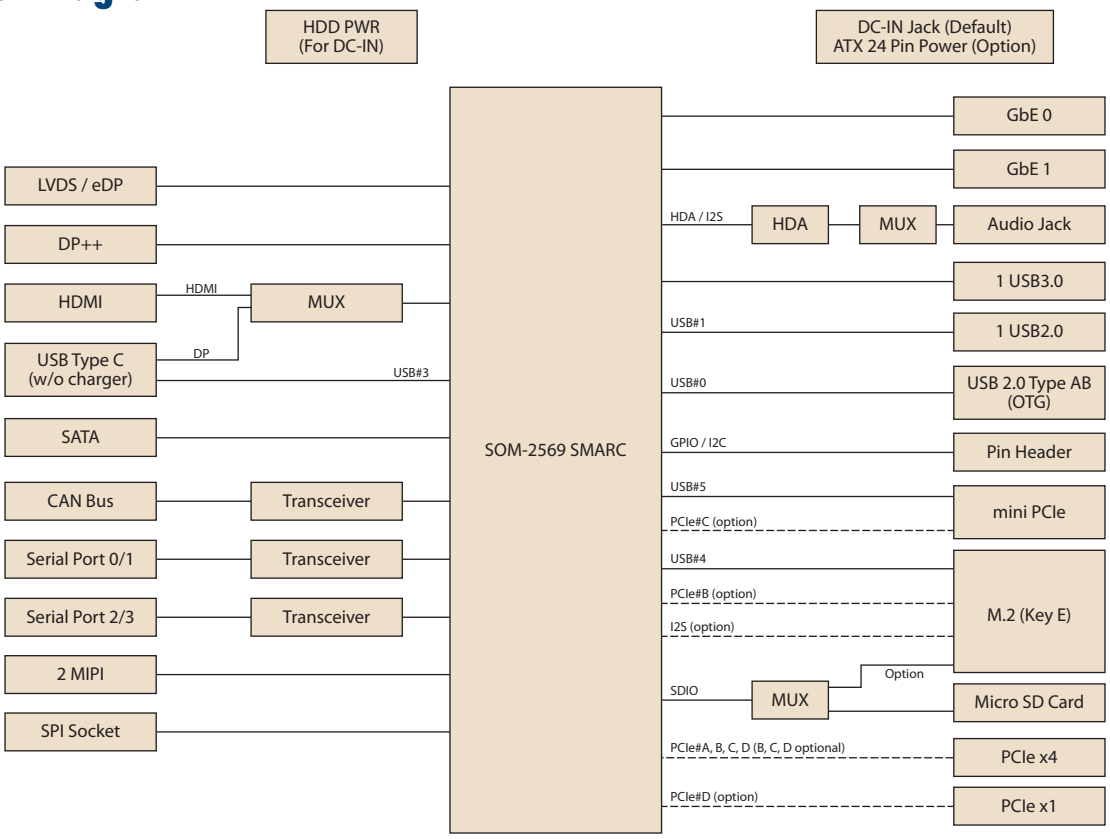
All product specifications are subject to change without notice.

Block Diagram



Accessory List

Part No.	Description	Quantity
1750008717-01	Dual band 2.4G/5GHz Dipole Antenna for WIFI/BT Operating Temperature: -40 ~ 65 °C Storage Temperature: -40 ~80 °C	2
1750008653-01	200mm Cable with SMA/F-R-BH MHF4/113 connector	2 (assembly with board)
1700008941	SATA Cable 7p, 32cm w/lock	1
1701200220	COM cable support 2 port, 22cm	1
96CB-E0405PIB3	LED CABLE 4-5PIN 50CM IB3 TYPE(G)	1
96CB-L2040PAB5	LVDS CABLE 20-40PIN 50CM AB5 TYPE(G)	1
96LEDK-A084SV45NB2	8.4" LED PANEL, single channel, 6/8 bit, 800 x 600 Operating Temperature: -40 ~ 85 °C Storage Temperature: -40 ~85 °C	1
96PSA-A84W12V1	Adapter 100-240V 84W 12V 7A, C14 DC PLUG 180°; Operating Temperature: 0 ~ 40 °C Storage Temperature: -30 ~60 °C	1

SW Inside

Item	Part No.	Description
Win10	20706WX9ES0053	Win10 IoT 2019 enterprise LTSC entry
McAfee, Acronis	36WSWPDOBD0211	McAfee, Acronis bundle license
DeviceOn	36WSWPDOBUND11	WISE-PaaS/DeviceOn client bundle license for one device

Packing list

Part No.	Description	Quantity
SOM-2569CNCCA-S7A1	SMARC E3950 8G LPD4 64G EMMC Wi-Fi	1
SOM-DB2500-00A1	SMARC R2.0 Devel. Board Rev. A1	1
1960093125T001	SOM-2569 E3900 SKU heat spreader	1
1960093089T001	Semi-Heatsink, 82L x 34W x 18H (mm)	1

Ordering Information

Part No.	Description
SOM-DK2569-00A1	SMARC development kit, w/ SOM-2569 module