SpaceSOM-8Mplus Datasheet and Pinout

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SpaceSOM-8Mplus Datasheet and Pinout

General description

The SpaceSOM-8Mplus family is a SODIMM-sized SoM based on the NXP quad core i.MX8M plus application processor which features an advanced implementation of NPU (ML+AI) coprocessor, a dual or four ARM Cortex-A53 cores (at speed up to 1.8GHz) and ARM Cortex-M7 core (at speed up to 800MHz) as well as a 2D (HD1080p60) and 3D Graphics Processing Unit (GPU) Open GL 3.01ES compatible and Video Processing Unit (VPU) with D1080p60 H.264 and HD1080p60 H.265 capabilities.

The SpaceSOM-8Mplus is a multimedia and video oriented, highly integrated SoM (System on Module) featuring high computation power and dual-band 2.4/5GHz, 802.11a/b/g/n/ac Wi-Fi and Bluetooth v5.1 connectivity. The option of integrated, fully certified Wi-Fi and Bluetooth module simplifies the carrier board design and is ideally suited for wireless application. The SpaceSOM-8Mplus provides a variety memory configuration including flexible range of LPDDR4, eMMC or SD memory card that meets our customers requirements.

The SoM supports connections to a variety of interfaces: two high-speed USB 2.0/3.0 on-the-go with PHY, dual Ethernet 1Gbit, audio, display with touch panel and MIPI-DSI/HDMI/LVDS interface and serial communication interfaces. In addition,

the system supports industrial grade embedded applications.

SoMLabs also provides a complete hardware and software development board for the SoM in the form of a carrier board and optional TFT display and touch panel.

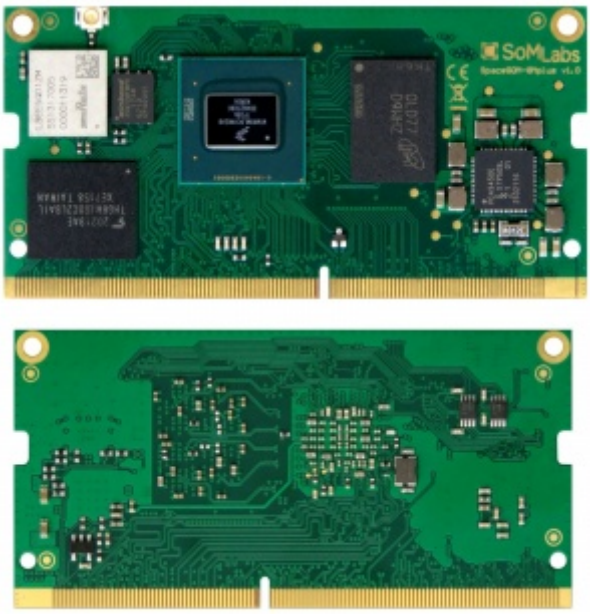
Applications

- Machine vision equipment
- Robotics
- Human-machine Interfaces (HMI)
- IP Cameras
- Video Stream Servers
- Home Appliances
- Home Automation – Smart Home
- IoT gateways
- Residential gateways
- Industrial embedded Linux computer
- Fitness/outdoor equipment

Features

- Powered by quad core NXP i.MX8M plus application processor
- Quad ARM Cortex-A53 core at speed up to 1.8GHz
- ARM Cortex-M7 core at speed up to 800MHz
- Integrated Machine-Learning (ML) and Artificial Intelligence (AI) Neural Processing Unit (NPU)
- Up to 4GB DRAM LPDDR4
- Up to 32GB eMMC memory or uSD memory card
- Optional Murata dual-band 2.4/5GHz, 802.11a/b/g/n/ac Wi-Fi and Bluetooth v5.1
- Built-in PCIe 3.0 communication interface
- Built-in dual USB 2.0/3.0 interface
- Built-in HDMI/LVDS and MIPI-DSI display interface
- Power-efficient and cost-optimized solution
- Ideal for industrial IoT and embedded applications
- Integrated security features

Pictures of SOM versions

Version	Photo
eMMC	

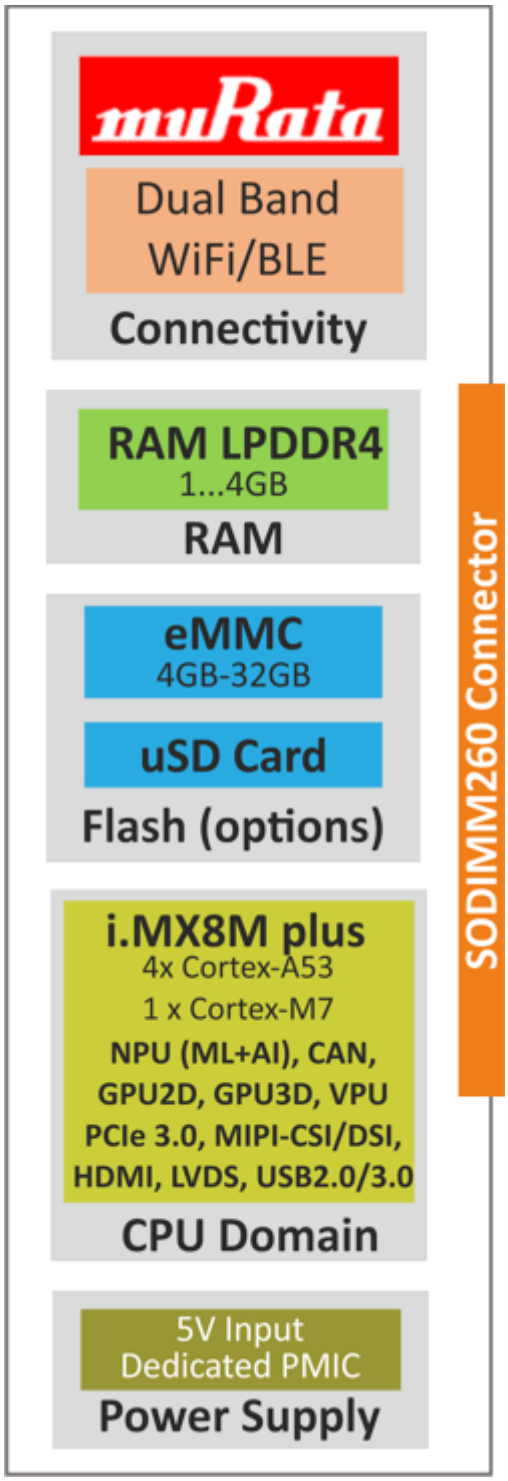
WiFi/BT module is available for all memory configurations.

Ordering info

SLSNNCpuType_Clock_RamSize_FlashSize_SF_TEMP

SLS	Product type SLS - System on Module
N	SOM Name 3 - High Performance SpaceSOM SODIMM260 module
N	CPU Family 5 - i.MX 8M plus
CpuType	CPU Type X8MPQC - i.MX 8M plus Quad Core
Clock	CPU Clock Speed 1600C - 1.6GHz (Industrial temperature range) 1800C - 1.8GHz (Commercial temperature range)
RamSize	LPDDR4 RAM Size 01GR - 1GB (1024MB) 02GR - 2GB (2048MB) 04GR - 4GB (4096MB)
FlashSize	eMMC Memory Size 04GE - 4GB eMMC 08GE - 8GB eMMC 16GE - 16GB eMMC 32GE - 32GB eMMC
SF	Special Features 0SF - No Special Features 1WB - Built-in dual-band Wi-Fi and Bluetooth v5.1
TEMP	Operating Temperature C - Consumer: 0 to +70 C E - Extended: -30 to +85 C I - Industrial: -40 to +85 C

Block Diagram



Operating ranges

Parameter	Value	Unit	Comment
Power Supply	5.0	V	Connected to VDD 5V SODIM260 pins
Max. input GPIO voltage	1.8/3.3	V	-
Environment temperature[1]	-40...+85	°C	Industrial range w/o WiFi module
	-30...+85		Industrial range with WiFi module
	0...+70		Consumer range

Note:
1. Maximum MPU junction temperature is +105°C.
2. Junction temperature determines MPU lifetime. Details: NXP AN13214 Application Note.

Electrical parameters

SOM signal name	Parameter	Value			Unit
		Min.	Typ.	Max.	
VDD-5V	Supply Voltage (Input)	4.0	5.0	5.25	V
SD1-NVCC	Output power supply for external 1.8/3.3V accesories	-	-	0.08	A
VDD-1V8	Output power supply for external 1.8V accesories	-	-	0.4	A
VDD-3V3	Output power supply for external 3.3V accesories	-	-	0.3[1]	A
VGPIO @1V8	GPIO Input Voltage	0	-	2.05	V
VGPIO @3V3	GPIO Input Voltage	0	-	3.6[2]	V
V_{USB_VBUS}	USB VBUS Input Voltage	0	-	5.0[3]	V

Notes:
1. Total current on both VDD-3V3 outputs.
2. Applying the maximum voltage 3.6V results in shorten lifetime. Recommended value is smaller than 3.45V.
3. Allowed maximum voltage range of USBx_VBUS input is 0...+3.95V but input current is limited by 30k resistor connected in series.

SoM pinout

Important notes:
1. Detail pin configurations description you can find, edit and arrange in dedicated MEX file (with free "iMX PinTool" configurational tool).
2. JTAG-MOD (ball G2) is permanently connected to GND
3. BOOT-MODE0 – RECOVERY line 0 -> BOOT-MODE0=1
4. BOOT-MODE1...MODE3 are premanently connected to GND
5. SDIO2 interface is used to communication with Murata 1ZM radio module
6. eMMC memory is connected to SDIO3 interface

SOM pin number	Default function	GPIO	FCBGA548 ball	Notes
1	GND	-	-	
2	GND	-	-	
3	JTAG-TMS	-	G14	3.3V power domain
4	UART4-TXD	GPIO5.29	AH5	3.3V power domain
5	JTAG-TCK	-	G18	3.3V power domain
6	UART4-RXD	GPIO5.28	AJ5	3.3V power domain
7	JTAG-TDO	-	F14	3.3V power domain
8	CAN1-TX	GPIO5.03	AE18	3.3V power domain
9	JTAG-TDI	-	G16	3.3V power domain
10	CAN1-RX	GPIO5.04	AD18	3.3V power domain
11	VDD-3V3	-	-	3.3V power supply output for external accesories, load max. 300mA
12	CAN2-TX	GPIO4.26	AH16	3.3V power domain
13	I2C2-SDA	GPIO5.17	AE8	3.3V power domain
14	CAN2-RX	GPIO4.27	AJ15	3.3V power domain
15	I2C2-SCL	GPIO5.16	AH6	3.3V power domain
16	GPIO5.05	-	AC18	3.3V power domain
17	GND	-	-	
18	GPIO5.23	-	AJ3	3.3V power domain

19	SAI3-MCLK	GPIO5.02	AJ20	3.3V power domain
20	GPIO5.22	-	AD6	3.3V power domain
21	GND	-	-	
22	NC	-	-	
23	SAI3-TXD	GPIO5.01	AH18	3.3V power domain
24	NC	-	-	
25	SAI3-TXC	GPIO5.00	AH19	3.3V power domain
26	UART3-RXD	GPIO5.26	AE6	3.3V power domain
27	SAI3-TXFS	GPIO4.31	AC16	3.3V power domain
28	UART3-TXD	GPIO5.27	AJ4	3.3V power domain
29	SAI3-RXD	GPIO4.30	AF18	3.3V power domain
30	UART2-RXD	GPIO5.24	AF6	3.3V power domain
31	SAI3-RXC	GPIO4.29	AJ18	3.3V power domain
32	UART2-TXD	GPIO5.25	AH4	3V3 power domain
33	SAI3-RXFS	GPIO4.28	AJ19	3.3V power domain
34	I2C3-SCL	GPIO5.18	AJ7	3.3V power domain
35	GND	-	-	
36	I2C3-SDA	GPIO5.19	AJ6	3.3V power domain
37	DDC-SDA	GPIO3.27	AF22	3.3V power domain
38	GND	-	-	
39	DDC-SCL	GPIO3.26	AC22	3.3V power domain
40	SPI2-CS0	GPIO5.13	AJ22	3.3V power domain
41	HDMI-HPD	GPIO3.29	AE22	
42	SPI2-SCLK	GPIO5.10	AH21	3.3V power domain
43	HDMI-EARC-AUX	-	AH23	Dedicated HDMI interface line
44	SPI2-MISO	GPIO5.12	AH20	3.3V power domain

45	HDMI-EARC_N	-	AH22	Dedicated HDMI interface line
46	SPI2-MOSI	GPIO5.11	AJ21	3.3V power domain
47	HDMI-EARC_P	-	AJ23	Dedicated HDMI interface line
48	SPI1-CS0	GPIO5.09	AE20	3.3V power domain
49	HDMI-CEC	GPIO3.28	AD22	
50	SPI1-SCLK	GPIO5.06	AF20	3.3V power domain
51	GND	-	-	
52	SPI1-MISO	GPIO5.08	AD20	3.3V power domain
53	HDMI-CK_N	-	AJ24	Dedicated HDMI interface line
54	SPI1-MOSI	GPIO5.07	AC20	3.3V power domain
55	HDMI-CK_P	-	AH24	Dedicated HDMI interface line
56	GND	-	-	
57	GND	-	-	
58	LVDS0-DATA3_P	-	C29	Dedicated LVDS interface line
59	HDMI-D0_N	-	AJ25	Dedicated HDMI interface line
60	LVDS0-DATA3_N	-	D28	Dedicated LVDS interface line
61	HDMI-D0_P	-	AH25	Dedicated HDMI interface line
62	GND	-	-	
63	HDMI-D1_N	-	AJ26	Dedicated HDMI interface line
64	LVDS0-CLK_P	-	A28	Dedicated LVDS interface line
65	HDMI-D1_P	-	AH26	Dedicated HDMI interface line
66	LVDS0-CLK_N	-	B28	Dedicated LVDS interface line
67	HDMI-D2_N	-	AJ27	Dedicated HDMI interface line
68	GND	-	-	
69	HDMI-D2_P	-	AH27	Dedicated HDMI interface line
70	LVDS0-DATA2_P	-	B29	Dedicated LVDS interface line

71	GND	-	-	
72	LVDS0-DATA2_N	-	C28	Dedicated LVDS interface line
73	SD1-DQS	GPIO2.11	W26	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
74	LVDS0-DATA1_P	-	A27	Dedicated LVDS interface line
75	SD1-CD	GPIO2.10	W25	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
76	LVDS0-DATA1_N	-	B27	Dedicated LVDS interface line
77	SD1-DATA7	GPIO2.09	U25	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
78	LVDS0-DATA0_P	-	A26	Dedicated LVDS interface line
79	SD1-DATA6	GPIO2.08	AA28	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
80	LVDS0-DATA0_N	-	B26	Dedicated LVDS interface line
81	SD1-DATA5	GPIO2.07	AA29	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
82	GND	-	-	
83	SD1-DATA4	GPIO2.06	U26	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
84	LVDS1-DATA3_P	-	C29	Dedicated LVDS interface line
85	SD1-DATA1	GPIO2.03	Y28	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
86	LVDS1-DATA3_N	-	D28	Dedicated LVDS interface line
87	SD1-DATA0	GPIO2.02	Y29	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
88	GND	-	-	
89	GND	-	-	
90	LVDS1-CLK_P	-	A28	Dedicated LVDS interface line
91	SD1-CLK	GPIO2.00	W28	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
92	LVDS1-CLK_N	-	B28	Dedicated LVDS interface line
93	SD1-CMD	GPIO2.01	W29	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
94	GND	-	-	
95	SD1-DATA3	GPIO2.05	V28	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
96	LVDS1-DATA2_P	-	B29	Dedicated LVDS interface line

97	SD1-DATA2	GPIO2.04	V29	1.8/3.3V IO voltage standard (controlled by SDIO-VSELECT)
98	LVDS1-DATA2_N	-	C28	Dedicated LVDS interface line
99	SD1-NVCC	-	-	SD1 1.8/3.3V power supply output (controlled by SDIO-VSELECT), load max. 80 mA
100	LVDS1-DATA1_P	-	A27	Dedicated LVDS interface line
101	VDD-3V3	-	-	3.3V power supply output for external accesories, load max. 300mA
102	LVDS1-DATA1_N	-	B27	Dedicated LVDS interface line
103	USB2-VBUS-OC	GPIO1.15	B5	3.3V power domain
104	LVDS1-DATA0_P	-	A26	Dedicated LVDS interface line
105	USB2-VBUS	-	D12	Dedicated USB2.0 interface line with 30 k resistor in series
106	LVDS1-DATA0_N	-	C26	Dedicated LVDS interface line
107	USB2-VBUS-EN	GPIO1.14	A4	3.3V power domain
108	GND	-	-	
109	USB2-D_P	-	D14	Dedicated USB2.0 interface line
110	PCIe-CLK_P	-	D16	CLKp line of PCIe interface (serial 100nF is necessary)
111	USB2-D_N	-	E14	Dedicated USB2.0 interface line
112	PCIe-CLK_N	-	E16	CLKn line of PCIe interface (serial 100nF is necessary)
113	USB2-ID		E12	Dedicated USB2.0 interface line
114	GND	-	-	
115	USB2-SS-RX_P	-	A12	Dedicated USB3.0 interface line
116	PCIe-TXN_P	-	A15	TXp line of PCIe interface (serial 100nF is necessary)
117	USB2-SS-RX_N	-	B12	Dedicated USB3.0 interface line
118	PCIe-TXN_N	-	B15	TXn line of PCIe interface (serial 100nF is necessary)
119	USB2-SS-TX_N	-	B13	Dedicated USB3.0 interface line
120	GND	-	-	
121	USB2-SS-TX_P	-	A13	Dedicated USB3.0 interface line

122	PCIe-RXN_P	-	A14	TXn line of PCIe interface
123	GND	-	-	
124	PCIe-RXN_N	-	B14	TXn line of PCIe interface
125	USB1-VBUS-OC	GPIO1.13	A6	3.3V power domain
126	GND	-	-	
127	USB1-VBUS	-	A11	Dedicated USB2.0 interface line with 30 k resistor in series
128	GPIO1.08	GPIO1.08	A8	3.3V power domain
129	USB1-VBUS-EN	GPIO1.12	A5	3.3V power domain
130	GPIO1.09	GPIO1.09	B8	3.3V power domain
131	USB1-D_P	-	D10	Dedicated USB2.0 interface line
132	GPIO1.00	-	A7	3.3V power domain
133	USB1-D_N	-	E10	Dedicated USB2.0 interface line
134	GPIO1.10	-	B7	3.3V power domain
135	USB1-ID	-	B11	Dedicated USB2.0 interface line
136	GPIO1.01	-	E8	3.3V power domain
137	USB1-SS-RX_P	-	A9	Dedicated USB3.0 interface line
138	GPIO1.11	-	D8	3.3V power domain
139	USB1-SS-RX_N	-	B9	Dedicated USB3.0 interface line
140	GPIO1.07	-	F6	3.3V power domain
141	USB1-SS-TX_N	-	C10	Dedicated USB3.0 interface line
142	GPIO1.03	-	D6	3.3V power domain
143	USB1-SS-TX_P	-	A10	Dedicated USB3.0 interface line
144	GPIO1.04	-	E6	3.3V power domain
145	GND	-	-	
146	GPIO1.05	-	B4	3.3V power domain
147	ENET2-INT	GPIO4.19	AJ13	1.8V power domain

148	GPIO1.06	-	A3	3.3V power domain
149	ENET2-RXC	GPIO4.11	AJ12	1.8V power domain
150	SYS-LED	GPIO4.25	AH15	3.3V power domain
151	ENET2-RX-CTL	GPIO4.10	AF12	1.8V power domain
152	RECOVERY	-	G10	Recovery input (BOOT-MODE0): =0 during reset – start eMMC recovering =1 or NC – normal operation
153	ENET2-RXD0	GPIO4.06	AD10	1.8V power domain
154	I2C4-SCL	GPIO5.20	AF8	3.3V power domain
155	ENET2-RXD1	GPIO4.07	AE10	1.8V power domain
156	I2C4-SDA	GPIO5.21	AD8	3.3V power domain
157	ENET2-RXD2	GPIO4.04	AH9	1.8V power domain
158	I2C1-SCL	GPIO5.14	AC8	3.3V power domain
159	ENET2-RXD3	GPIO4.05	AJ8	1.8V power domain
160	I2C1-SDA	GPIO5.15	AH7	3.3V power domain
161	GND	-	-	
162	GND	-	-	
163	ENET2-TXC	GPIO4.17	AH14	1.8V power domain
164	CSI2-DATA3_P	-	A21	MIPI-CSI video input channel
165	ENET2-TX-CTL	GPIO4.16	AH13	1.8V power domain
166	CSI2-DATA3_N	-	B21	MIPI-CSI video input channel
167	ENET2-TXD0	GPIO4.12	AJ11	1.8V power domain
168	CSI2-DATA2_P	-	A22	MIPI-CSI video input channel
169	ENET2-TXD1	GPIO4.13	AJ10	1.8V power domain
170	CSI2-DATA2_N	-	B22	MIPI-CSI video input channel
171	ENET2-TXD2	GPIO4.14	AH11	1.8V power domain
172	CSI2-DATA1_P	-	A24	MIPI-CSI video input channel

173	ENET2-TXD3	GPIO4.15	AD12	1.8V power domain
174	CSI2-DATA1_N	-	B24	MIPI-CSI video input channel
175	ENET2-MDIO	GPIO4.05	AJ8	1.8V power domain
176	CSI2-DATA0_P	-	A25	MIPI-CSI video input channel
177	ENET2-MDC	GPIO4.04	AH9	1.8V power domain
178	CSI2-DATA0_N	-	B25	MIPI-CSI video input channel
179	ENET2-RST	GPIO4.18	AC12	1.8V power domain
180	GND	-	-	
181	ENET2-EV1-OUT	GPIO4.03	AF10	1.8V power domain
182	CSI2-CLK_P	-	A23	MIPI-CSI video input channel
183	ENET2-EV1-IN	GPIO4.02	AC10	1.8V power domain
184	CSI2-CLK_N	-	B23	MIPI-CSI video input channel
185	ENET2-EV0-OUT	GPIO4.01	AH8	1.8V power domain
186	GND	-	-	
187	ENET2-EV0-IN	GPIO4.00	AJ9	1.8V power domain
188	CSI1-DATA3_N	-	E26	MIPI-CSI video input channel
189	VDD-1V8	-	-	1.8V voltage output for external accesories, load max. 400 mA
190	CSI1-DATA3_P	-	D26	MIPI-CSI video input channel
191	GND	-	-	
192	CSI1-DATA2_N	-	E24	MIPI-CSI video input channel
193	ENET1-INT	GPIO4.20	AE12	1.8V power domain
194	CSI1-DATA2_P	-	D24	MIPI-CSI video input channel
195	ENET1-RXC	GPIO1.25	AE29	1.8V power domain
196	CSI1-DATA1_N	-	E20	MIPI-CSI video input channel
197	ENET1-RX-CTL	GPIO1.24	AE28	1.8V power domain
198	CSI1-DATA1_P	-	D20	MIPI-CSI video input channel

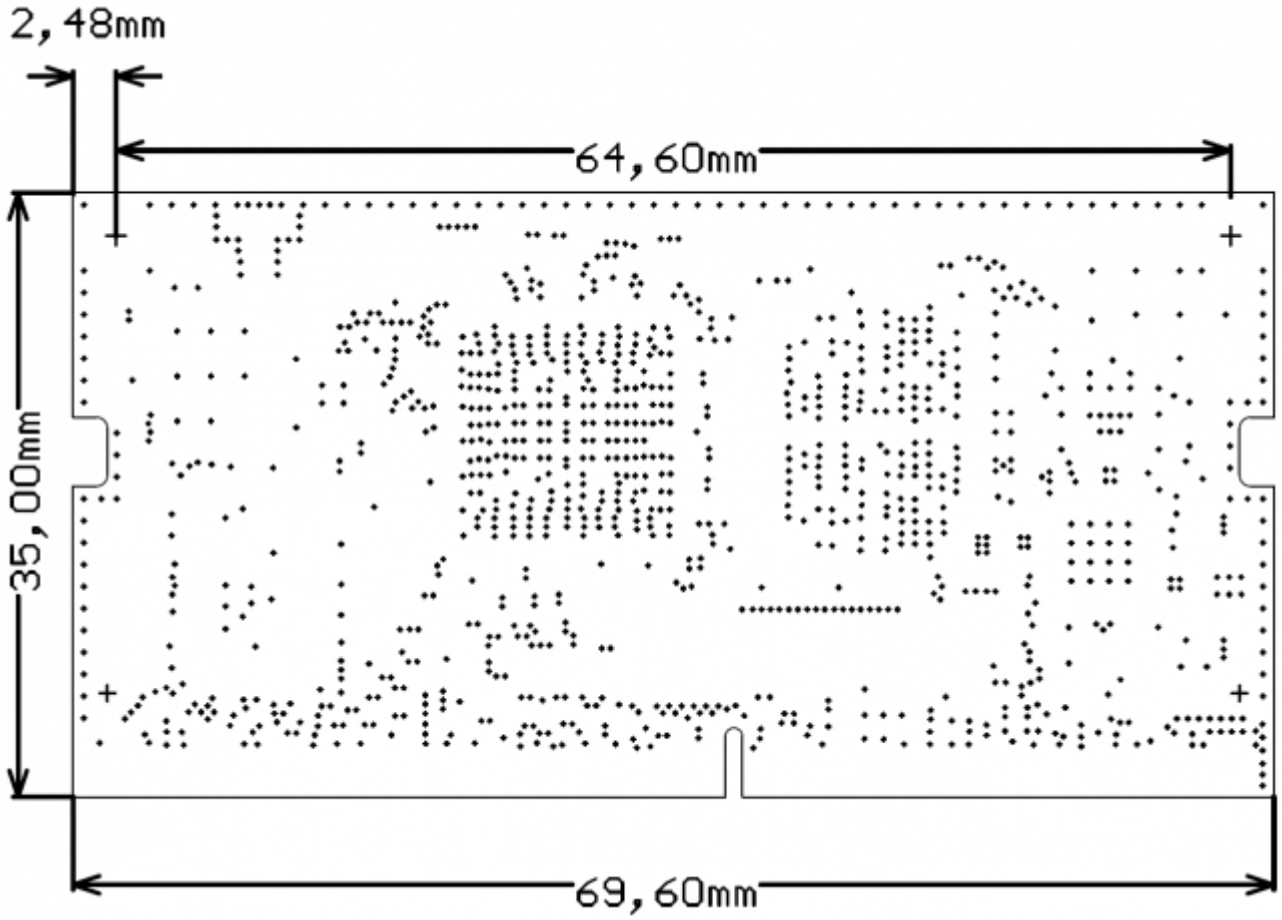
199	ENET1-RXD0	GPIO1.26	AG29	1.8V power domain
200	CSI1-DATA0_N	-	E18	MIPI-CSI video input channel
201	ENET1-RXD1	GPIO1.27	AG28	1.8V power domain
202	CSI1-DATA0_P	-	D18	MIPI-CSI video input channel
203	ENET1-RXD2	GPIO1.28	AF29	1.8V power domain
204	GND	-	-	
205	ENET1-RXD3	GPIO1.29	AF28	1.8V power domain
206	CSI1-CLK_N	-	E22	MIPI-CSI video input channel
207	GND	-	-	
208	CSI1-CLK_P	-	D22	MIPI-CSI video input channel
209	ENET1-TXC	GPIO1.23	AE24	1.8V power domain
210	GND	-	-	
211	ENET1-TX-CTL	GPIO1.22	AF24	1.8V power domain
212	DSI-CLK_P	-	A18	DSI1 video output channel
213	ENET1-TXD0	GPIO1.25	AC25	1.8V power domain
214	DSI-CLK_N	-	B18	DSI1 video output channel
215	ENET1-TXD1	GPIO1.20	AE26	1.8V power domain
216	GND	-	-	
217	ENET1-TXD2	GPIO1.19	AF26	1.8V power domain
218	DSI-DATA0_P	-	A16	DSI1 video output channel
219	ENET1-TXD3	GPIO1.18	AD24	1.8V power domain
220	DSI-DATA0_N	-	B16	DSI1 video output channel
221	ENET1-MDIO	GPIO1.17	AH29	1.8V power domain
222	DSI-DATA1_P	-	A17	DSI1 video output channel
223	ENET1-MDC	GPIO1.16	AH28	1.8V power domain
224	DSI-DATA1_N	-	B17	DSI1 video output channel

225	ENET1-RST		T28	1.8V power domain
226	DSI-DATA2_P	-	A19	DSI1 video output channel
227	GPIO3.24	-	AE14	1.8V power domain
228	DSI-DATA2_N	-	B19	DSI1 video output channel
229	GPIO3.23	-	AF16	1.8V power domain
230	DSI-DATA3_P	-	A20	DSI1 video output channel
231	GPIO3.22	-	AD16	1.8V power domain
232	DSI-DATA3_N	-	B20	DSI1 video output channel
233	NC	-	-	
234	GND	-	-	
235	NC	-	-	
236	NC	-	-	
237	NC	-	-	
238	NC	-	-	
239	GND	-	-	
240	PWR-ON	-	G22	ONOFF MPU input 1.8V power domain
241	I2C6-SCL	GPIO3.19	AC14	I2C6 is used to communication with PMIC PCA9450CHN with internal 1V8 pull-ups. Externally compatible with 3.3V logic standards.
242	SYS-RST	-	J29	Buffered, open-drain POR-B output
243	I2C6-SDA	GPIO3.20	AD14	I2C6 is used to communication with PMIC PCA9450CHN with internal 1V8 pull-ups. Externally compatible with 3.3V logic standards.
244	RST-IN	-	-	PMIC_RST_B input (system reset generated by PMIC)
245	VDD5V	-	-	External 5V input
246	GND	-	-	
247	VDD5V	-	-	External 5V input

248	GND	-	-	
249	VDD5V	-	-	External 5V input
250	GND	-	-	
251	VDD5V	-	-	External 5V input
252	GND	-	-	
253	VDD5V	-	-	External 5V input
254	GND	-	-	
255	VDD5V	-	-	External 5V input
256	GND	-	-	
257	VDD5V	-	-	External 5V input
258	GND	-	-	
259	VDD5V	-	-	External 5V input
260	GND	-	-	
-	PMIC-INT	GPIO3.25	AF14	Interrupt line connected to IRQ_B PMIC PCA9450CHN
-	SDIO-VSELECT	GPIO3.21	AE16	Control line for SDIO1 power supply voltage (LDO5 in PMIC PCA9450CHN, SDIO-VSELECT)
-	GPIO1.02	-	B6	WDOG-B
-	BT-CTS	-	AJ14	1ZM Bluetooth module line (UART1)
-	BT-TXD	-	AH17	1ZM Bluetooth module line (UART1)
-	BT-RTS	-	AJ17	1ZM Bluetooth module line (UART1)
-	BT-RXD	-	AJ16	1ZM Bluetooth module line (UART1)
-	BT-H-WAKE	GPIO2.20	AC26	1ZM Bluetooth module line
-	NAND_D0	QSPI-D0	R25	Connection for optional QSPI NOR Flash
-	NAND_D1	QSPI-D1	L25	Connection for optional QSPI NOR Flash
-	NAND_D2	QSPI-D2	L24	Connection for optional QSPI NOR Flash
-	NAND_D3	QSPI-D3	N24	Connection for optional QSPI NOR Flash
-	NAND_ALE	QSPI-CLK	N25	Connection for optional QSPI NOR Flash

-	NAND_CE0_B	QSPI-CS	L26	Connection for optional QSPI NOR Flash
-	WLAN-H-WAKE	GPIO2.19	AD28	1ZM WiFi module line
-	WLAN-ENABLE	GPIO2.12	AD29	1ZM WiFi module line

Dimensions



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