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Sirius AI Box ON 4GB

Overview

Compact AI Power for Essential Edge Applications

Sirius AI Box ON 4GB module is designed to bring AI processing to the most compact and power-efficient edge devices. With a focus on delivering essential AI capabilities, this module is perfect for applications like entry-level robotics, basic smart cameras, and IoT devices that require a balance between performance and energy efficiency. The 4GB of memory ensures smooth operation for foundational AI tasks, making it an ideal choice for developers looking to integrate AI into smaller, cost-sensitive projects without compromising on quality.

- 2x USB 3.0 Ports (Type-A)
- 1x USB OTG (Micro)
- 1x 10/100/1000 Base-T RJ45
- 1x HDMI 2.0
- 1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO
- Wide input voltage range from 9V to 36V DC
- Operating Temperature -25°C ~ +85°C
- Fanless Design

SPECIFICATIONS

Jetson Module	Jetson Orin Nano 4GB	**AI Performance**	20 TOPs
GPU	512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores	**CPU**	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	4GB 64-bit LPDDR5 34 GB/s	**Dimensions**	124mm(L) x 86mm(W) x 74mm(H)
MISC / IO Connector	1x 3.3V UART, 1x I2C bus 2x SPI bus, 4x GPIO	**USB**	3x USB 3.2 Gen2 (10 Gbps) 3x USB 2.0
DL Accelerator		**Power Configuration**	7W - 10W
Display Output	1x HDMI 2.0	**Camera Inputs**	2x MIPI CSI-2 15 Pin
Networking	1x 10/100/1000 Base-T RJ45	**Wireless**	1x M.2 E-Key - 2230
Storage	1x NVME M.2 M-Key SSD - 2280	**Input Power**	9V-36V DC Input
Operating Temperature	-25°C to +85°C	**Weight**	909g (Including Antenna)
Video Encode	1080p30 supported by 1-2 CPU cores	**Video Decode**	1x 4K60 | 2x 4K30 5x 1080p60 | 11x 1080p30 (H.265) H.264, VP9, AV1

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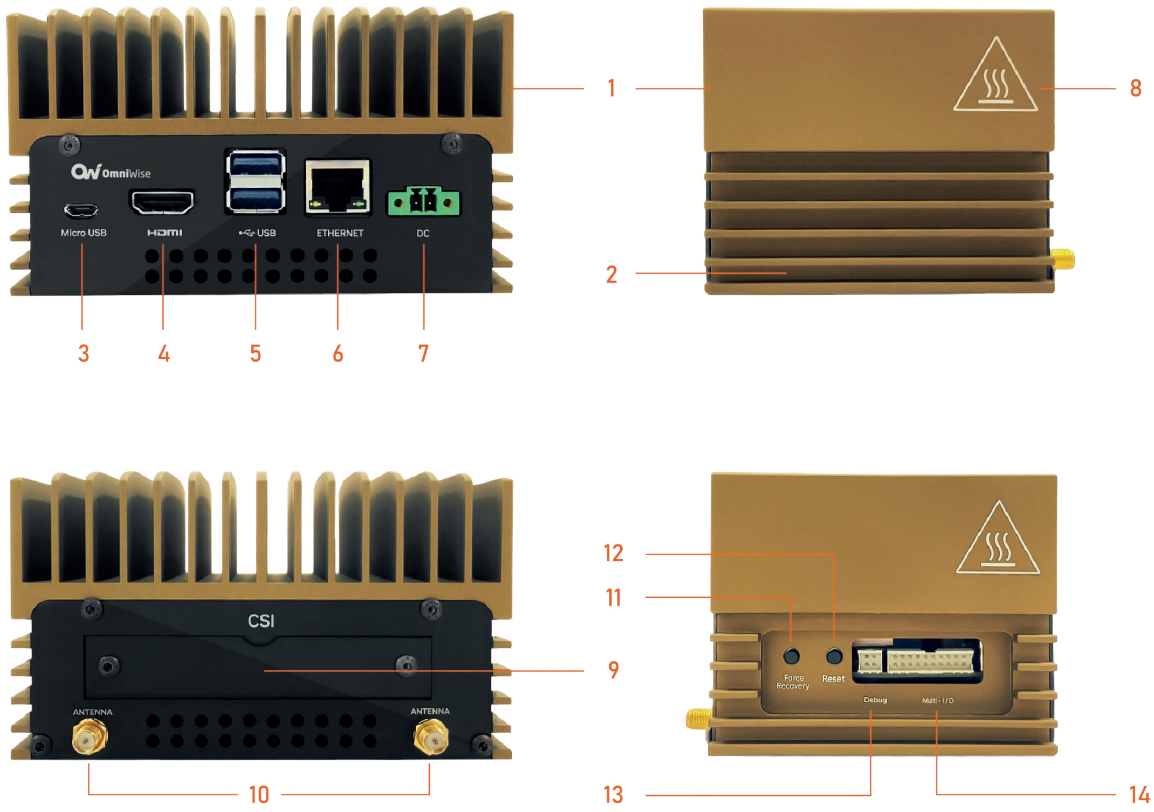
Sirius AI Box ON 4GB



Number	Name	Description
1	Heatsink	Passive Heatsink
2	Case	124mm(L) x 86mm(W) x 74mm(H) - 909g (Including Antenna)
3	Micro USB Port	USB 2.0 Micro-B
4	HDMI Port	HDMI (3840 x 2160 at 60Hz)
5	USB Port	2x USB 3.0 Ports (Type-A)
6	ETHERNET Port	1x 10/100/1000 Base-T RJ45
7	DC Port	Voltage Range 9V - 36V
8	Operating Temperature	-25°C to +85°C
9	CSI Port	2 Lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector
10	Antenna Port	Antenna Port
11	Force Recovery Button	Button for Recovery Mode
12	Reset Button	System Reset Button
13	Debug Connector	1x UART for Debug
14	Multi - I / O Connector	1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO

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Sirius AI Box ON 8GB

Overview

Enhanced AI Performance for Demanding Edge Solutions

For developers who need more processing power and memory to tackle complex AI workloads, the Sirius AI Box 8GB module provides a significant upgrade. With double the memory of the 4 GB variant, this module is well-suited for more demanding applications such as advanced robotics, multi-camera video analytics, and edge AI inferencing. The expanded memory capacity allows for handling larger AI models and processing more data in real time, making the Sirius AI Box ON 8GB the go-to solution for projects that require enhanced AI performance without compromising on efficiency or form factor.

- 2x USB 3.0 Ports (Type-A)
- 1x USB OTG (Micro)
- 1x 10/100/1000 Base-T RJ45
- 1x HDMI 2.0
- 1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO
- Wide input voltage range from 9V to 36V DC
- Operating Temperature -25°C ~ +85°C
- Fanless Design

SPECIFICATIONS

Jetson Module	Jetson Orin Nano 8GB	**AI Performance**	40 TOPs
GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	**CPU**	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	8GB 128-bit LPDDR5 68 GB/s	**Dimensions**	124mm(L) x 86mm(W) x 74mm(H)
MISC / IO Connector	1x 3.3V UART, 1x I2C bus 2x SPI bus, 4x GPIO	**USB**	3x USB 3.2 Gen2 (10 Gbps) 3x USB 2.0
DL Accelerator		**Power Configuration**	7W - 15W
Display Output	1x HDMI 2.0	**Camera Inputs**	2x MIPI CSI-2 15 Pin
Networking	1x 10/100/1000 Base-T RJ45	**Wireless**	1x M.2 E-Key - 2230
Storage	1x NVME M.2 M-Key SSD - 2280	**Input Power**	9V-36V DC Input
Operating Temperature	-25°C to +85°C	**Weight**	909g (Including Antenna)
Video Encode	1080p30 supported by 1-2 CPU cores	**Video Decode**	1x 4K60 | 2x 4K30 5x 1080p60 | 11x 1080p30 (H.265) H.264, VP9, AV1

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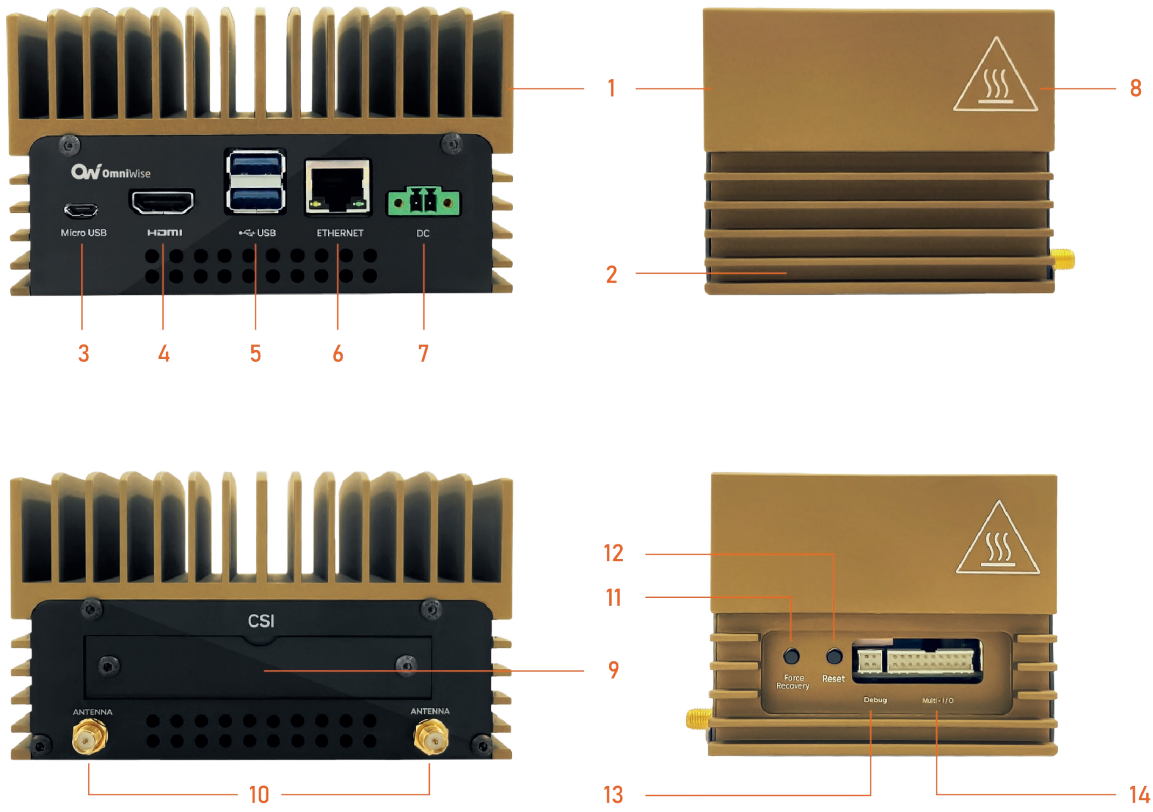
Sirius AI Box ON 8GB



Number	Name	Description
1	Heatsink	Passive Heatsink
2	Case	124mm(L) x 86mm(W) x 74mm(H) - 909g (Including Antenna)
3	Micro USB Port	USB 2.0 Micro-B
4	HDMI Port	HDMI (3840 x 2160 at 60Hz)
5	USB Port	2x USB 3.0 Ports (Type-A)
6	ETHERNET Port	1x 10/100/1000 Base-T RJ45
7	DC Port	Voltage Range 9V - 36V
8	Operating Temperature	-25°C to +85°C
9	CSI Port	2 Lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector
10	Antenna Port	Antenna Port
11	Force Recovery Button	Button for Recovery Mode
12	Reset Button	System Reset Button
13	Debug Connector	1x UART for Debug
14	Multi - I / O Connector	1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO

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Sirius AI Box ONX 8GB

Overview

Efficient AI Processing for Edge Applications

Sirius AI Box NX 8GB is designed for projects requiring advanced AI and machine learning capabilities with a focus on power efficiency. Perfect for compact and portable devices, this module excels in applications such as intelligent video analytics, autonomous robots, and smart sensors, where maintaining low power consumption is critical. Its balanced processing power and energy efficiency make it an ideal choice for edge AI solutions that need to operate seamlessly in constrained environments without sacrificing performance.

- 2x USB 3.0 Ports (Type-A)
- 1x USB OTG (Micro)
- 1x 10/100/1000 Base-T RJ45
- 1x HDMI 2.0
- 1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO
- Wide input voltage range from 9V to 36V DC
- Operating Temperature -25°C ~ +85°C
- Fanless Design

SPECIFICATIONS

Jetson Module	Jetson Orin NX 8GB	**AI Performance**	70 TOPS (INT8)
GPU	1024-core NVIDIA Ampere architecture GPU with 32 tensor cores	**CPU**	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	8GB 128-bit LPDDR5	**Dimensions**	124mm(L) x 86mm(W) x 74mm(H)
MISC / IO Connector	1x 3.3V UART, 1x I2C bus 2x SPI bus, 4x GPIO	**USB**	2x USB 3.0 Ports (Type-A) 1x USB OTG (Micro)
DL Accelerator	1x NVDLA v2.0	**Power Configuration**	10W - 20W
Display Output	1x HDMI 2.0	**Camera Inputs**	2x MIPI CSI-2 15 Pin
Networking	1x 10/100/1000 Base-T RJ45	**Wireless**	1x M.2 E-Key - 2230
Storage	1x NVME M.2 M-Key SSD - 2280	**Input Power**	9V-36V DC Input
Operating Temperature	-25°C to +85°C	**Weight**	909g (Including Antenna)
Video Encode	1x 4K60 | 3x 4K30 | 6x 1080p60 12x 1080p30 (H.265) H.264, AV1	**Video Decode**	1x 8K30 | 2x 4K60 | 4x 4K30 9x 1080p60 | 18x 1080p30 (H.265) H.264, VP9, AV1

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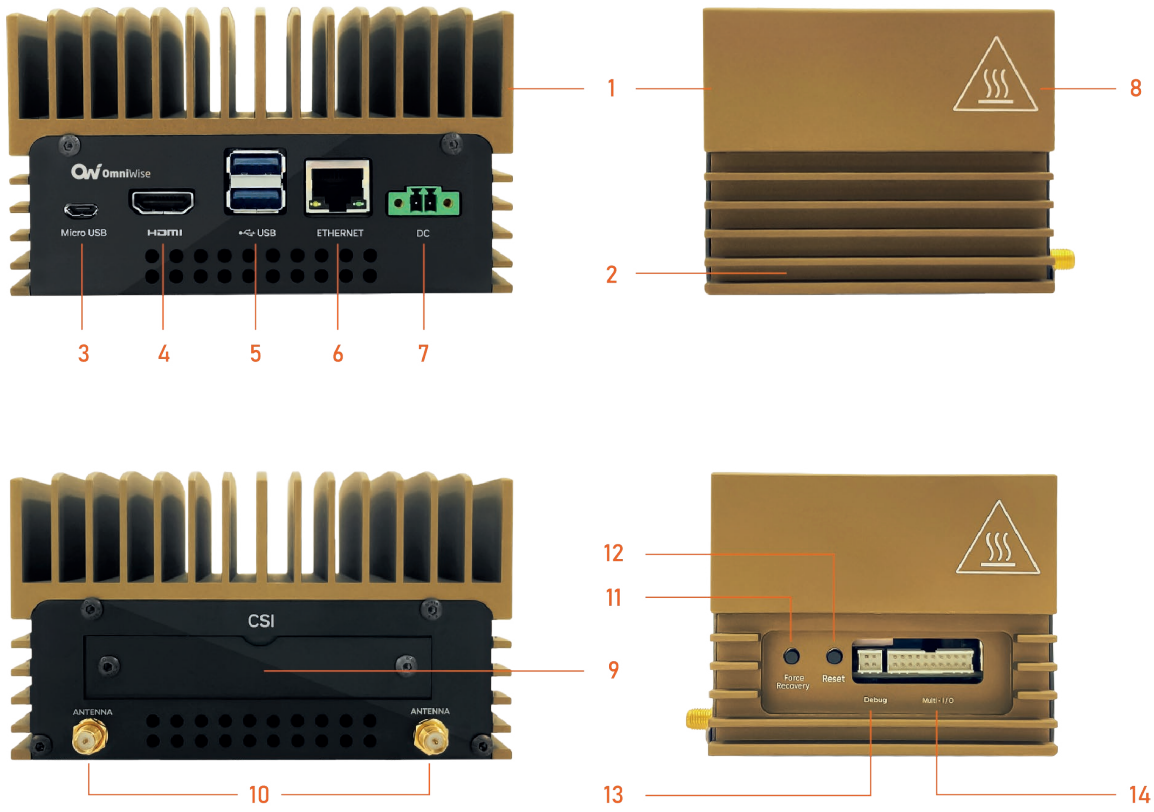
Sirius AI Box ONX 8GB



Number	Name	Description
1	Heatsink	Passive Heatsink
2	Case	124mm(L) x 86mm(W) x 74mm(H) - 909g (Including Antenna)
3	Micro USB Port	USB 2.0 Micro-B
4	HDMI Port	HDMI (3840 x 2160 at 60Hz)
5	USB Port	2x USB 3.0 Ports (Type-A)
6	ETHERNET Port	1x 10/100/1000 Base-T RJ45
7	DC Port	Voltage Range 9V - 36V
8	Operating Temperature	-25°C to +85°C
9	CSI Port	2 Lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector
10	Antenna Port	Antenna Port
11	Force Recovery Button	Button for Recovery Mode
12	Reset Button	System Reset Button
13	Debug Connector	1x UART for Debug
14	Multi - I / O Connector	1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO

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Sirius AI Box ONX 16GB

Overview

Unleash Maximum AI Performance at the Edge

For projects demanding higher computational power and the ability to process complex AI models in real time, Sirius AI Box NX 16GB module offers the ultimate solution. With double the memory, this module is tailored for intensive AI workloads, such as large-scale robotics, multi-camera systems, and sophisticated industrial automation. The increased memory capacity enables the handling of more data and larger models, providing a significant performance boost for applications that require top-tier AI processing at the edge, ensuring unparalleled speed and efficiency in the most demanding scenarios.

- 2x USB 3.0 Ports (Type-A)
- 1x USB OTG (Micro)
- 1x 10/100/1000 Base-T RJ45
- 1x HDMI 2.0
- 1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO
- Wide input voltage range from 9V to 36V DC
- Operating Temperature -25°C ~ +85°C
- Fanless Design

SPECIFICATIONS

Jetson Module	Jetson Orin NX 16GB	**AI Performance**	100 TOPS (INT8)
GPU	1024-core NVIDIA Ampere architecture GPU with 32 tensor cores	**CPU**	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	16GB 128-bit LPDDR5	**Dimensions**	124mm(L) x 86mm(W) x 74mm(H)
MISC / IO Connector	1x 3.3V UART, 1x I2C bus 2x SPI bus, 4x GPIO	**USB**	2x USB 3.0 Ports (Type-A) 1x USB OTG (Micro)
DL Accelerator	2x NVDLA v2.0	**Power Configuration**	10W - 25W
Display Output	1x HDMI 2.0	**Camera Inputs**	2x MIPI CSI-2 15 Pin
Networking	1x 10/100/1000 Base-T RJ45	**Wireless**	1x M.2 E-Key - 2230
Storage	1x NVME M.2 M-Key SSD - 2280	**Input Power**	9V-36V DC Input
Operating Temperature	-25°C to +85°C	**Weight**	909g (Including Antenna)
Video Encode	1x 4K60 | 3x 4K30 | 6x 1080p60 12x 1080p30 (H.265) H.264, AV1	**Video Decode**	1x 8K30 | 2x 4K60 | 4x 4K30 9x 1080p60 | 18x 1080p30 (H.265) H.264, VP9, AV1

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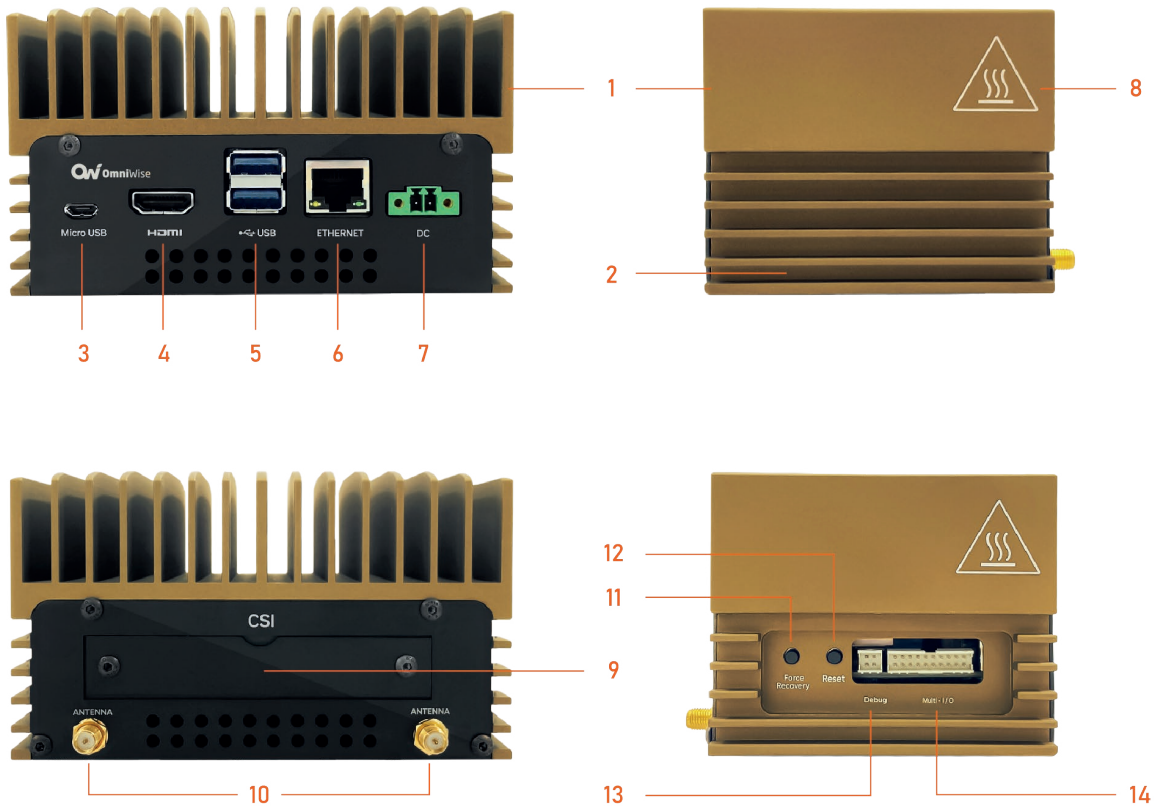
Sirius AI Box ONX 16GB



Number	Name	Description
1	Heatsink	Passive Heatsink
2	Case	124mm(L) x 86mm(W) x 74mm(H) - 909g (Including Antenna)
3	Micro USB Port	USB 2.0 Micro-B
4	HDMI Port	HDMI (3840 x 2160 at 60Hz)
5	USB Port	2x USB 3.0 Ports (Type-A)
6	ETHERNET Port	1x 10/100/1000 Base-T RJ45
7	DC Port	Voltage Range 9V - 36V
8	Operating Temperature	-25°C to +85°C
9	CSI Port	2 Lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector
10	Antenna Port	Antenna Port
11	Force Recovery Button	Button for Recovery Mode
12	Reset Button	System Reset Button
13	Debug Connector	1x UART for Debug
14	Multi - I / O Connector	1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO