Manuals+ — User Manuals Simplified.

Shuttle DL20N Series Mini PC Intel Celeron User Guide

Shuttle DL20N Series Mini PC Intel Celeron

Contents

Product Overview

1. MIC-in
2. Headphones
3. Power LED
4. Hard Disk Drive LED
5. Power Button
6. SD Card Reader
7. USB 3.2 Gen 2 Ports
8. USB 2.0 Ports
9. DisplayPort
10. COM 1 Port (RS232/RS422/RS485)
11. COM 2 Port (RS232 only)
12. Clear CMOS & Power Button & +5V
13. USB 3.2 Gen 1 Ports
14. HDMI Port
15. D-Sub (VGA) Port
16. LAN Port
17. Power Jack (DC IN)
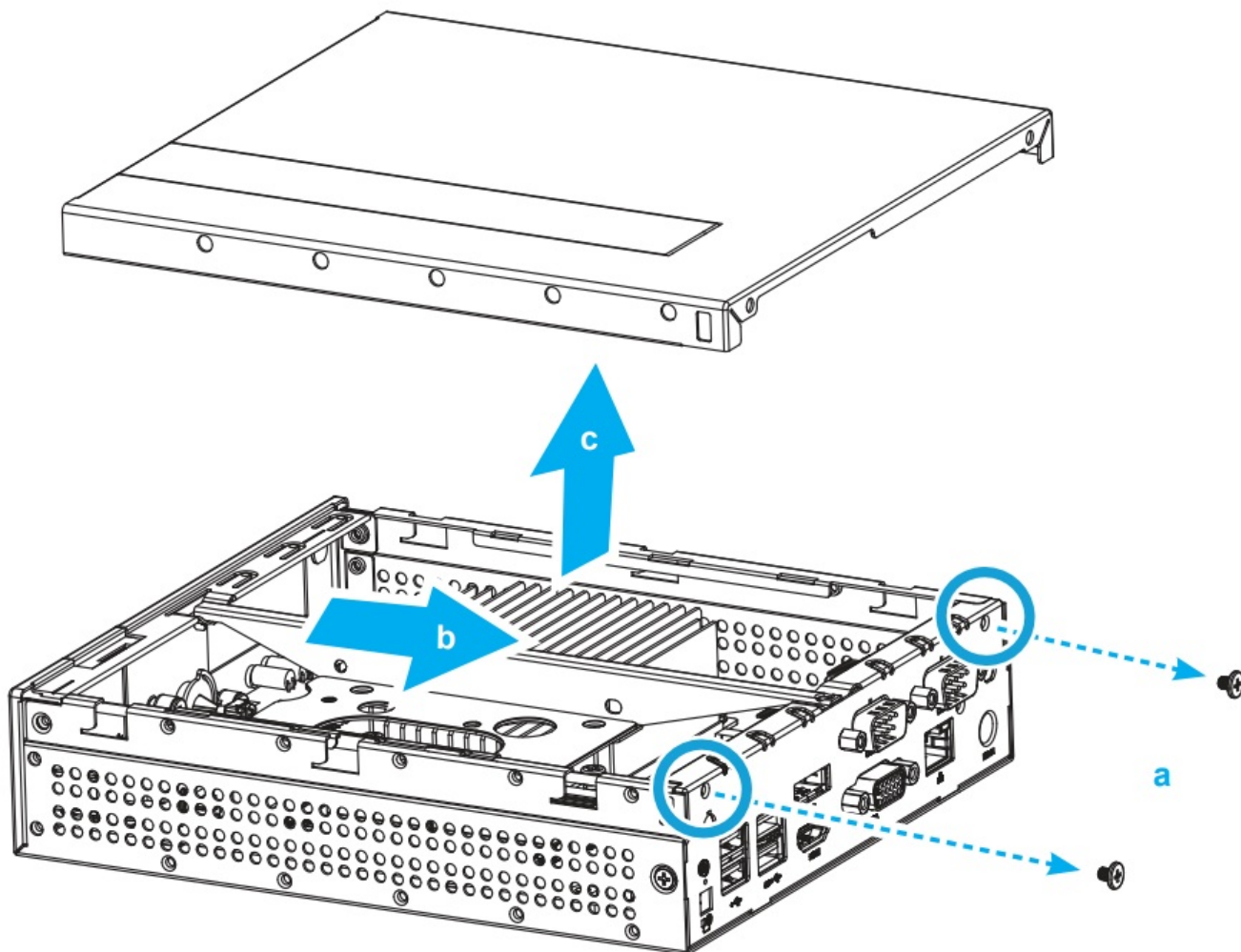18. Kensington® Lock Hole

Hardware Installation

A. Begin Installation

⚠️ For safety reasons, please ensure that the power cord is disconnected before opening the case.
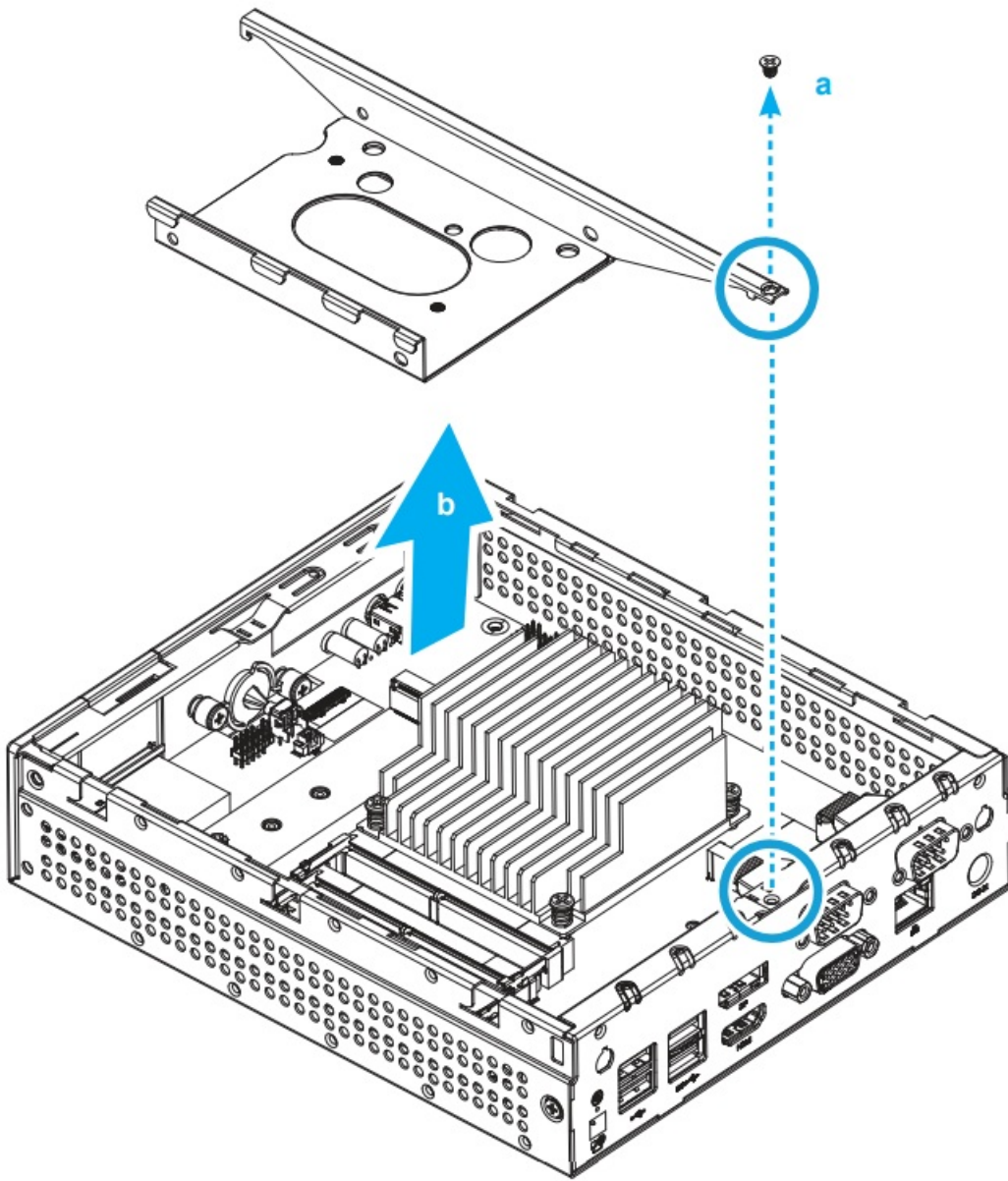
1. Unscrew the two screws of the chassis cover.

   Slide the cover backwards and upwards.

💡 The product's colour and specifications may vary from the actually shipping product.

2. Unfasten the rack mount screw and remove the rack.
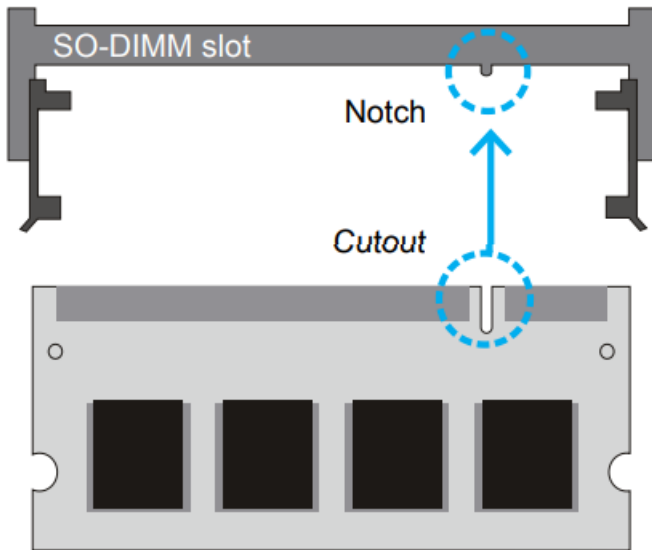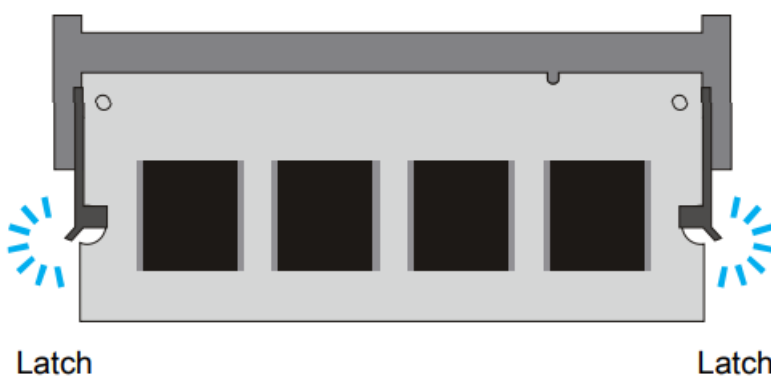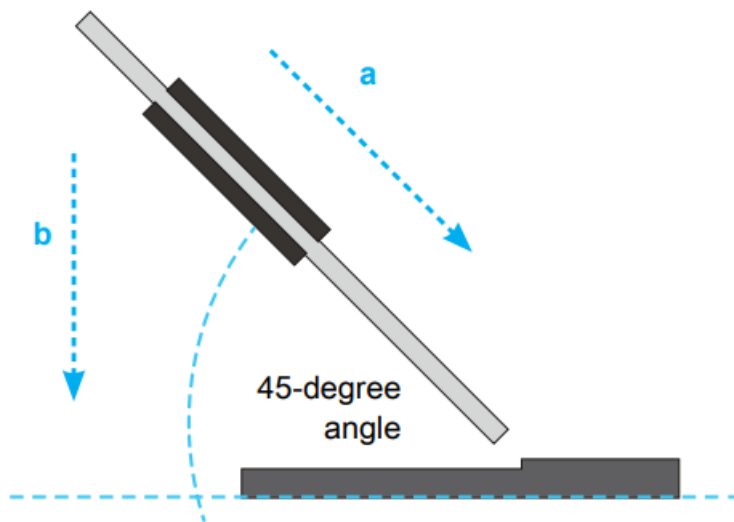
B. Memory Module Installation

⚠ This motherboard does only support 1.2 V DDR4 SO-DIMM memory modules.

1. Locate the SO-DIMM slots on the motherboard.
2. Align the notch of the memory module with the one of the relevant memory slot.

3. Gently insert the module into the slot in a 45-degree angle.

4. Carefully push down the memory module until it snaps into the locking mechanism.

45-degree angle

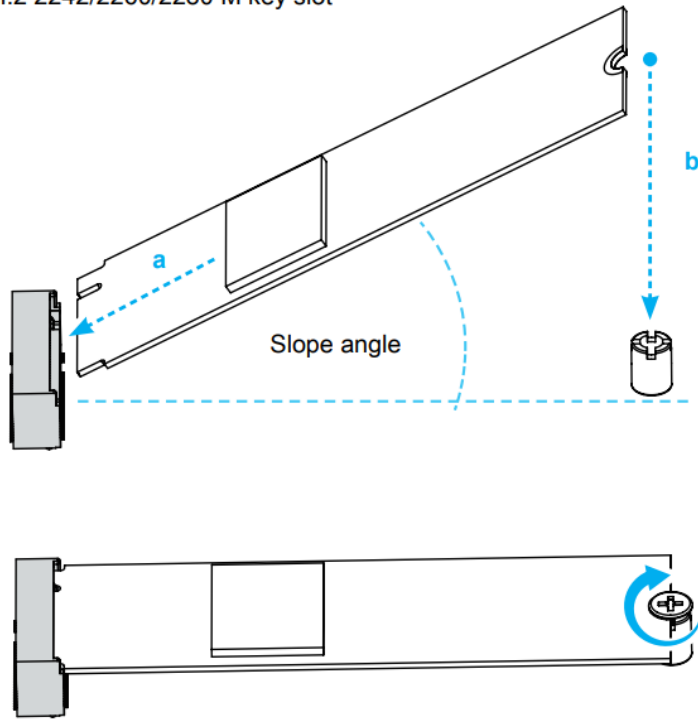Latch   Latch

5. Repeat the above steps to install an additional memory module, if required.

C. M.2 Device Installation

1. Locate the M.2 key slots on the motherboard.

2. Install the M.2 device into the M.2 slot and secure with the screw.

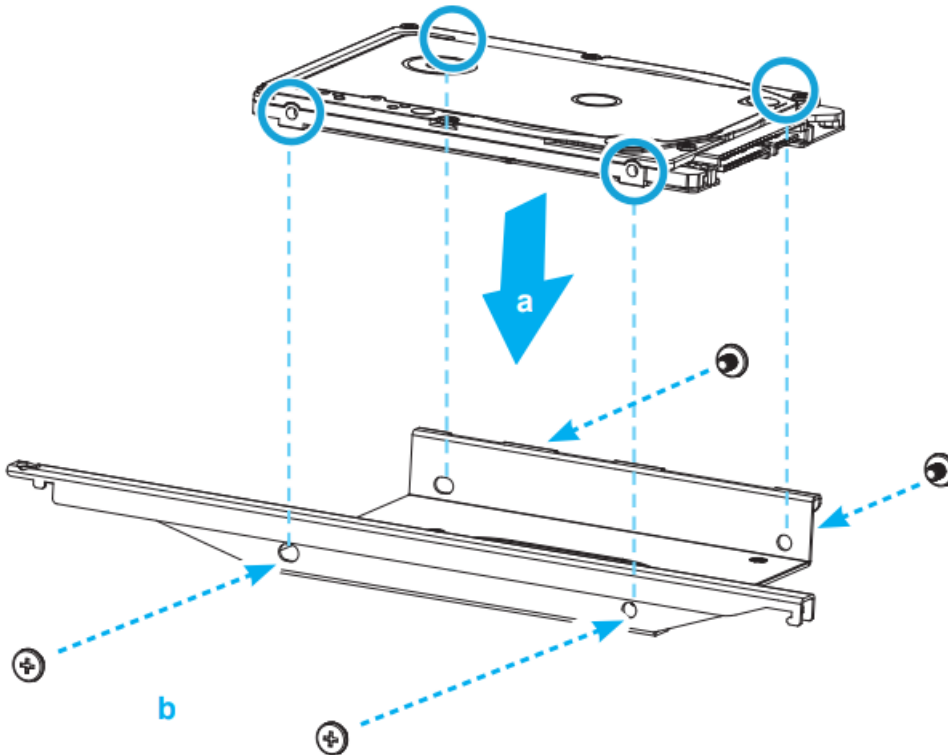➢ M.2 2242/2260/2280 M key slot

➢ M.2 2230 E Key slot

Slope angle

Slope angle
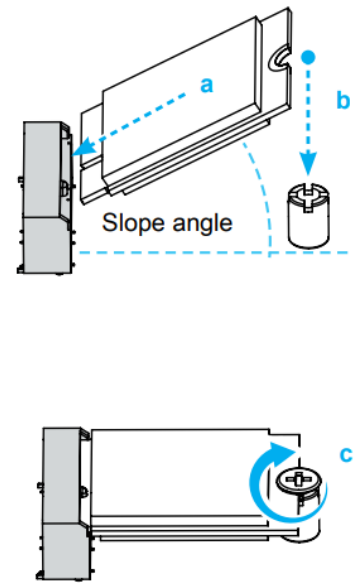
D. HDD or SSD Installation

1. Place an HDD or SSD in the rack and secure with the four screws from the sides.

2. Slide the rack back into the chassis and refasten the screws. Connect the Serial ATA cable to the HDD or SSD.

Serial ATA cable
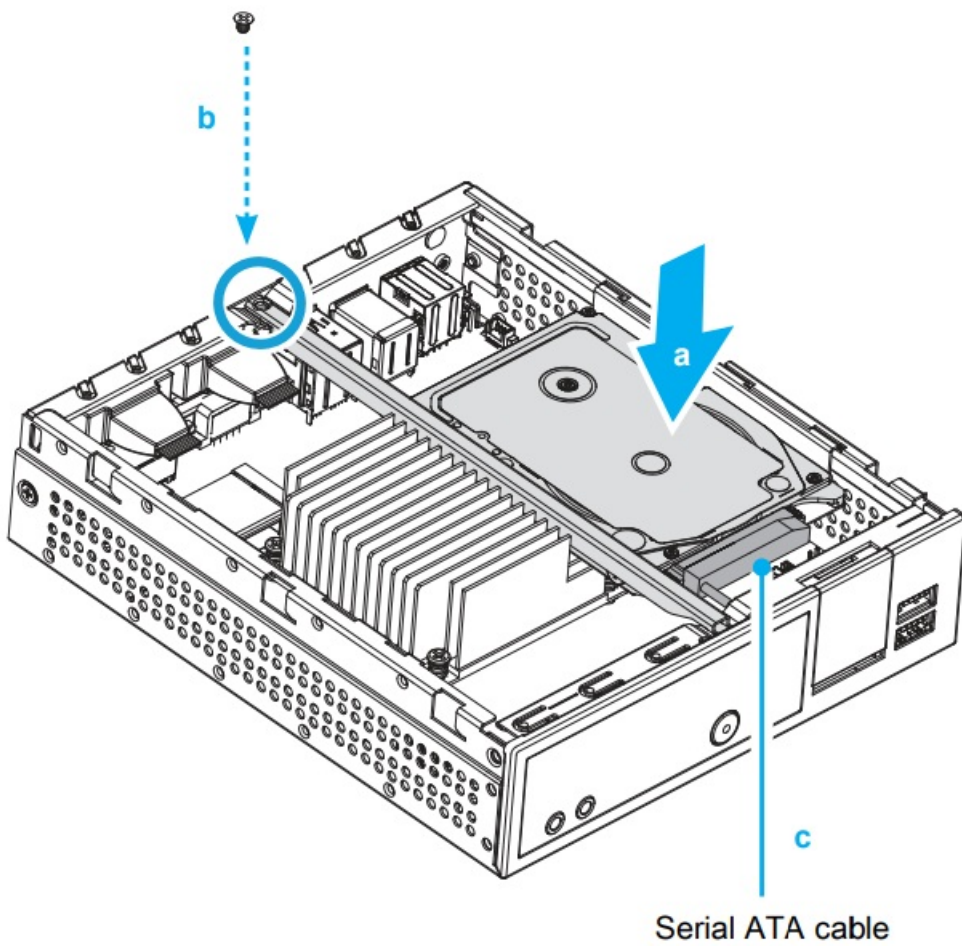
E. Complete

1. Please replace and affix the case cover with two screws, then connect the power cord.
2. Complete.

DC-IN

⚠️ Please press the "Del" key while booting to enter BIOS. Here, please load the optimised BIOS settings.

Safety Information

⚠ Incorrectly replacing the battery may damage this computer. Replace only with the same or equivalent as recommended by Shuttle. Dispose of used batteries according to the manufacturer's instructions.
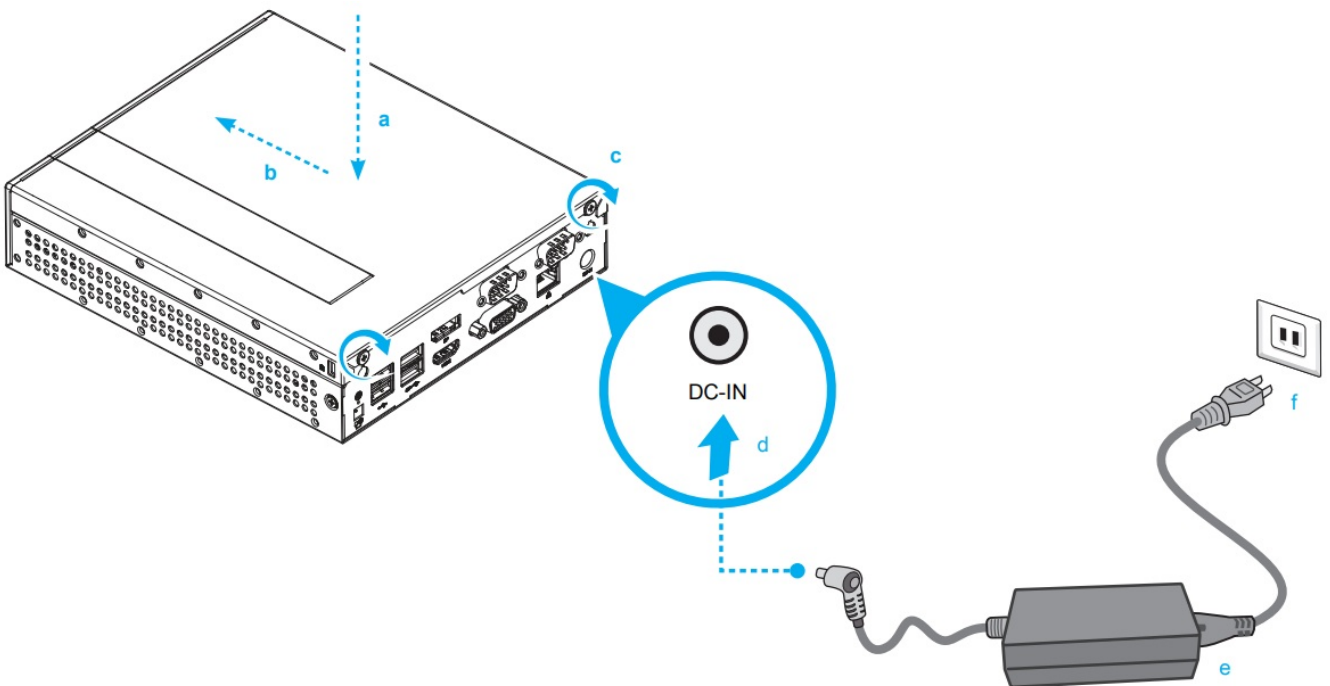
All bundled parts, power cord included, shall not be used without this product.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE This device meets the requirements for the EU conformity in accordance to the currently valid EU directives.

Motherboard Illustration
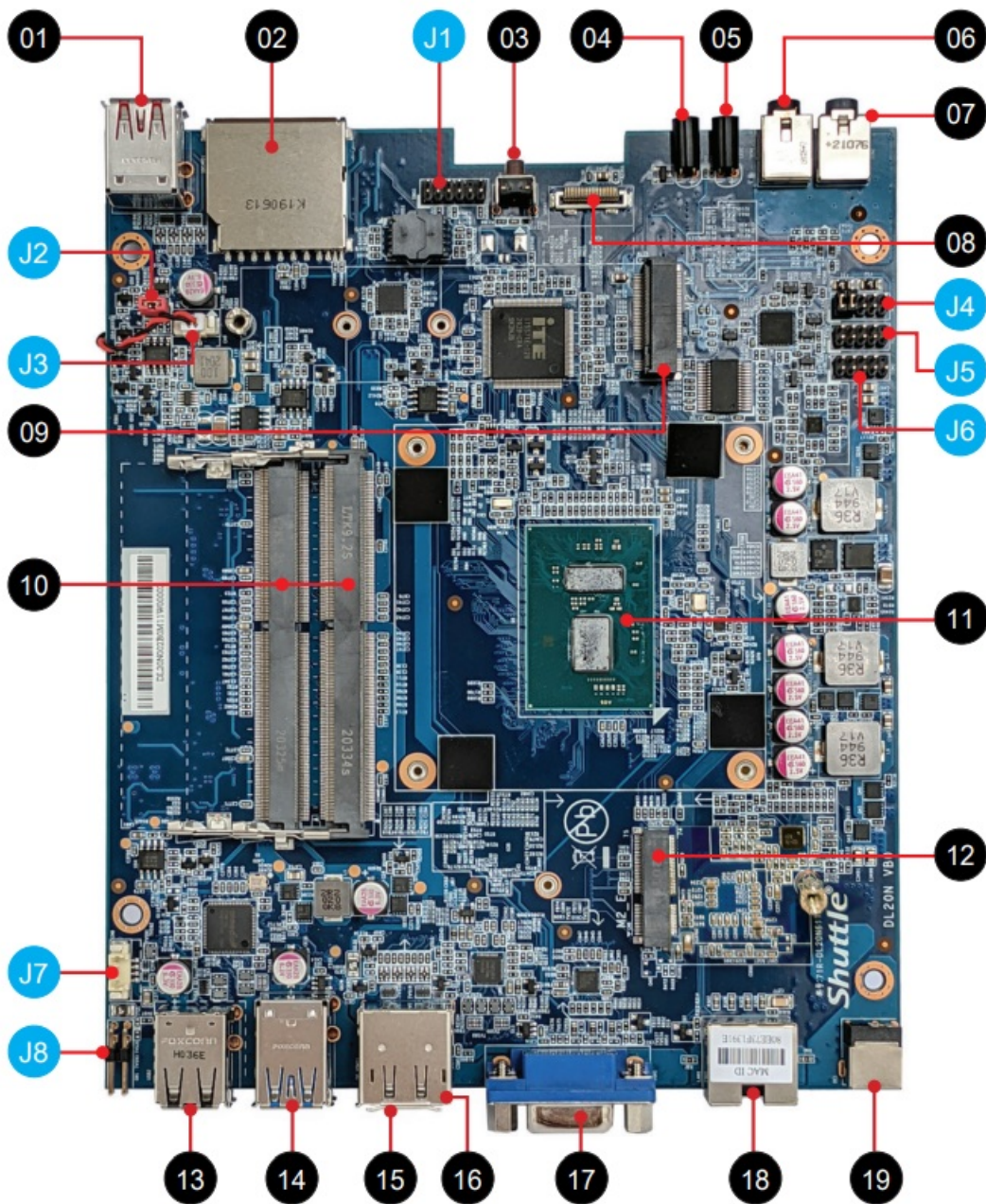
1. USB 3.2 Gen 2 Ports

2. SD Card Reader

3. Power Button

4. Hard Disk Drive LED

5. Power LED

6. Headphones

7. MIC-in

8. SATA Connector

9. M.2 2242/2260/2280 M key slot

10. DDR4 SO-DIMM Slot

11. Intel® Celeron® / Pentium processor

12. M.2 2230 E key slot

13. USB 2.0 Ports

14. USB 3.2 Gen 1 Ports

15. HDMI Port

16. DisplayPort
17. D-Sub (VGA) port
18. LAN Port
19. Power Jack (DC IN)

Jumper Settings

- (J1) Debug Connector
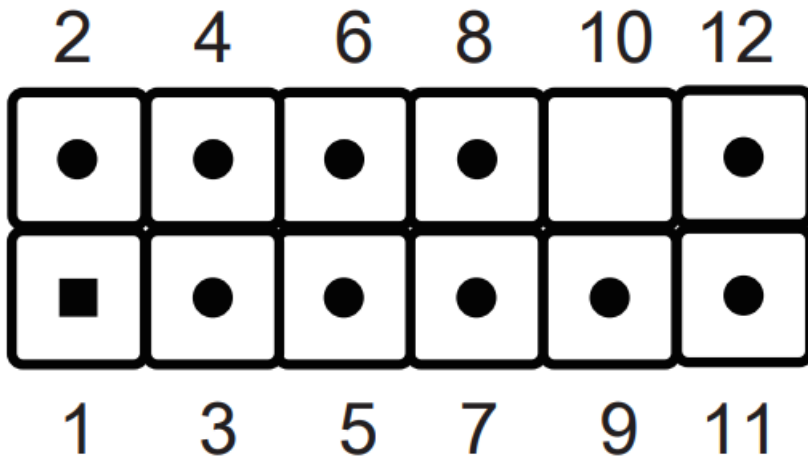
DBG1			
Pin	Signal Name	Pin	Signal Name
1	ESCK	2	EIO1
3	PCIE_RST_N	4	EIO0
5	ECS_N	6	+3.3VS
7	EIO3	8	GND
9	EIO2	10	
11	ALERT_N	12	ERST_N

- (J2) AC Back Auto Power ON

JP1	
Pin	Signal Name
1	Disable_N
2	GND

Default

Short (disabled)

Open (enabled)

- (J3) Battery Connector

CN9	
Pin	Signal Name
1	+VRTC_BAT
2	GND
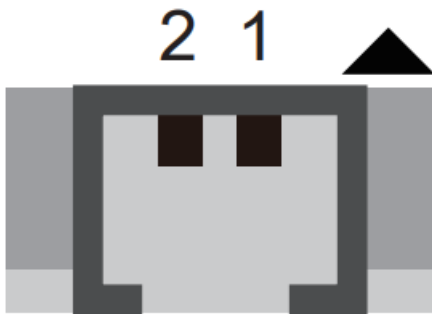
- (J4) COM 1 & COM 2 power switch

  PORT Pin 9 "Ring Indicator" (RI) configuration:

  Configure COM 1 with the first jumper:

  – Short Pin 1-2: Pin 9 = RI (default)

  – Short Pin 5-7: Pin 9 = +5V
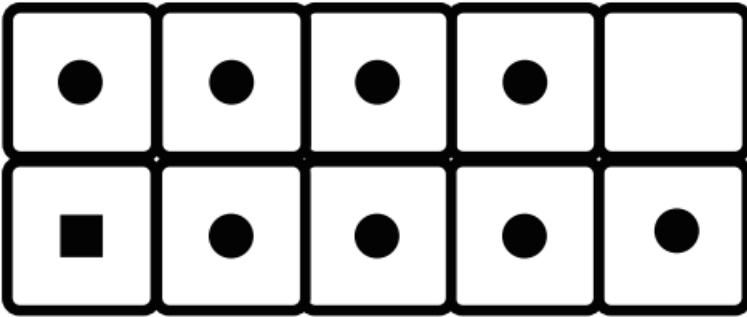
  – Short Pin 7-9: Pin 9 = +12V

  Configure COM 2 with the second jumper:

  – Short Pin 3-4: Pin 9 = RI (default)

  – Short Pin 6-8: Pin 9 = +5V

  – Short Pin 8-10: Pin 9 = +12V

- (J5) COM Port
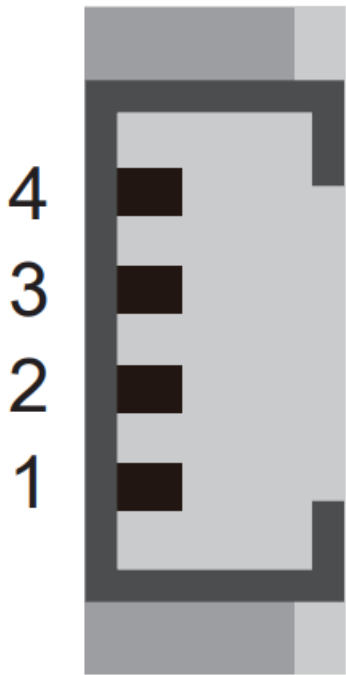- (J6)

```
   2    4    6    8   10

 ┌────┬────┬────┬────┬────┐
 │ ●  │ ●  │ ●  │ ●  │    │
 ├────┼────┼────┼────┼────┤
 │ ■  │ ●  │ ●  │ ●  │ ●  │
 └────┴────┴────┴────┴────┘

   1    3    5    7    9
```

COM2

Pin	Signal Name	Pin	Signal Name
1	DCD-	2	RXD
3	TXD	4	DTR-
5	GND	6	DSR-
7	RTS-	8	CTS-
9	RI-		

COM1

Pin	Signal Name			Pin	Signal Name		
	RS232	RS422	RS485		RS232	RS422	RS485
1	DCD-	TXD-	DATA-	2	RXD	TXD+	DATA+
3	TXD	RXD+		4	DTR-	RXD-	
5	GND	GND	GND	6	DSR-		
7	RTS-			8	CTS-		
9	RI-						

- (J7) USB2.0 connector

- (J8) Clear CMOS & power button & +5V

SW1	
Pin	Signal Name
1	RTCRST-
2	+5V
3	GND
4	PWRSW-
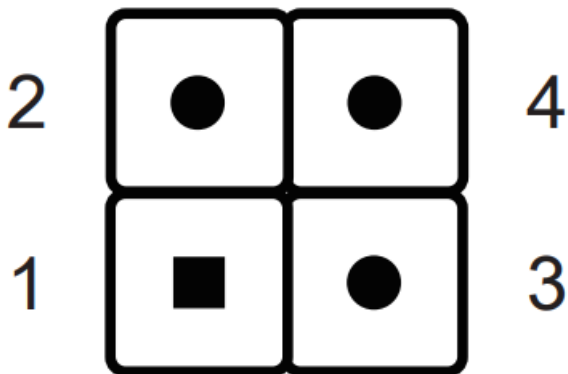
JP2			
Pin	Signal Name	Pin	Signal Name
1	RI1-	2	COM_RI1-
3	RI2-	4	COM_RI2-
5	+5V	6	+5V
7	RI1_PWR	8	RI2_PWR
9	+12V	10	+12V
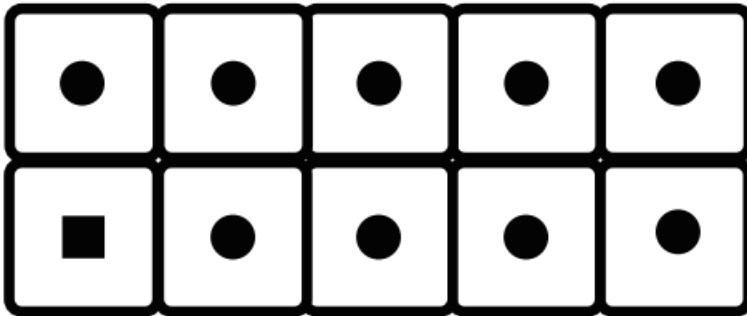
CUSTOMER SERVICE

More information on this product can be found at: **http://bit.ly/DL20N**

Documents / Resources
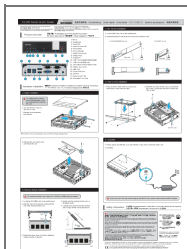
Shuttle DL20N Series Mini PC Intel Celeron [pdf] User Guide
DL20N Series Mini PC Intel Celeron, DL20N Series, Mini PC Intel Celeron, Intel Celeron, Celeron

References

- ⓑ **Shuttle Global - DL20N SERIES**