
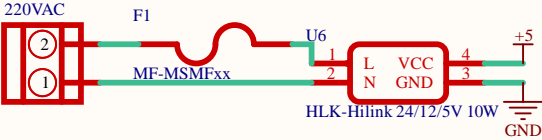


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| Title <b>3V3_Block.SchDoc</b> |                         |                            | Company:<br><i>HTD COMPANY LIMITED</i><br><i>HO CHI MINH CITY</i><br><i>VIETNAM</i>                                      |  |
| Size: <b>A4</b>               | Number:                 | Revision: <b>21.3.2.30</b> |  |   |
| Date: <b>07/08/2025</b>       | Time: <b>1:43:57 SA</b> | Design by: <b>CHITOAN</b>  | File: <b>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\3V3_Block.SchDoc</b> |   |
|                               |                         |                            |  |   |



Title **AC\_POWER\_Block.SchDoc**

Size: **A4**

Number:

Revision: **21.3.2.30**

Date: **07/08/2025**

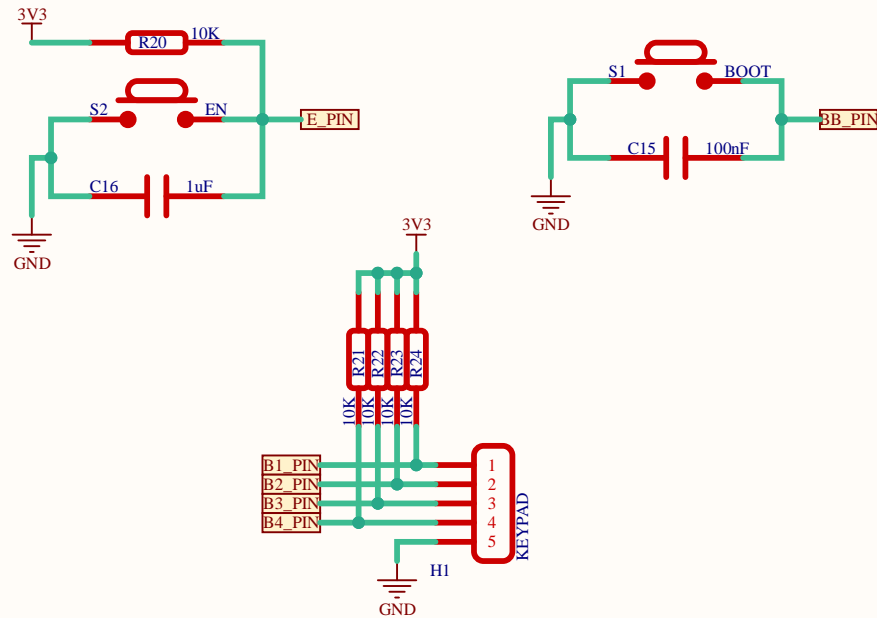
Time: **1:43:57 SA**


Design by: **CHITOAN**

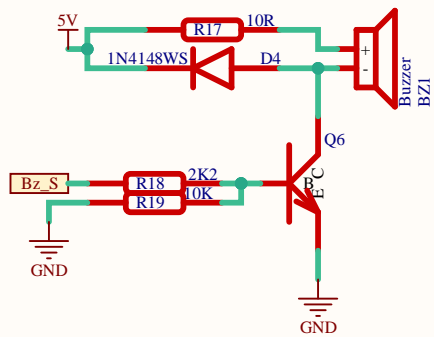
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Company:  
**HTD COMPANY LIMITED**  
**HO CHI MINH CITY**  
**VIETNAM**

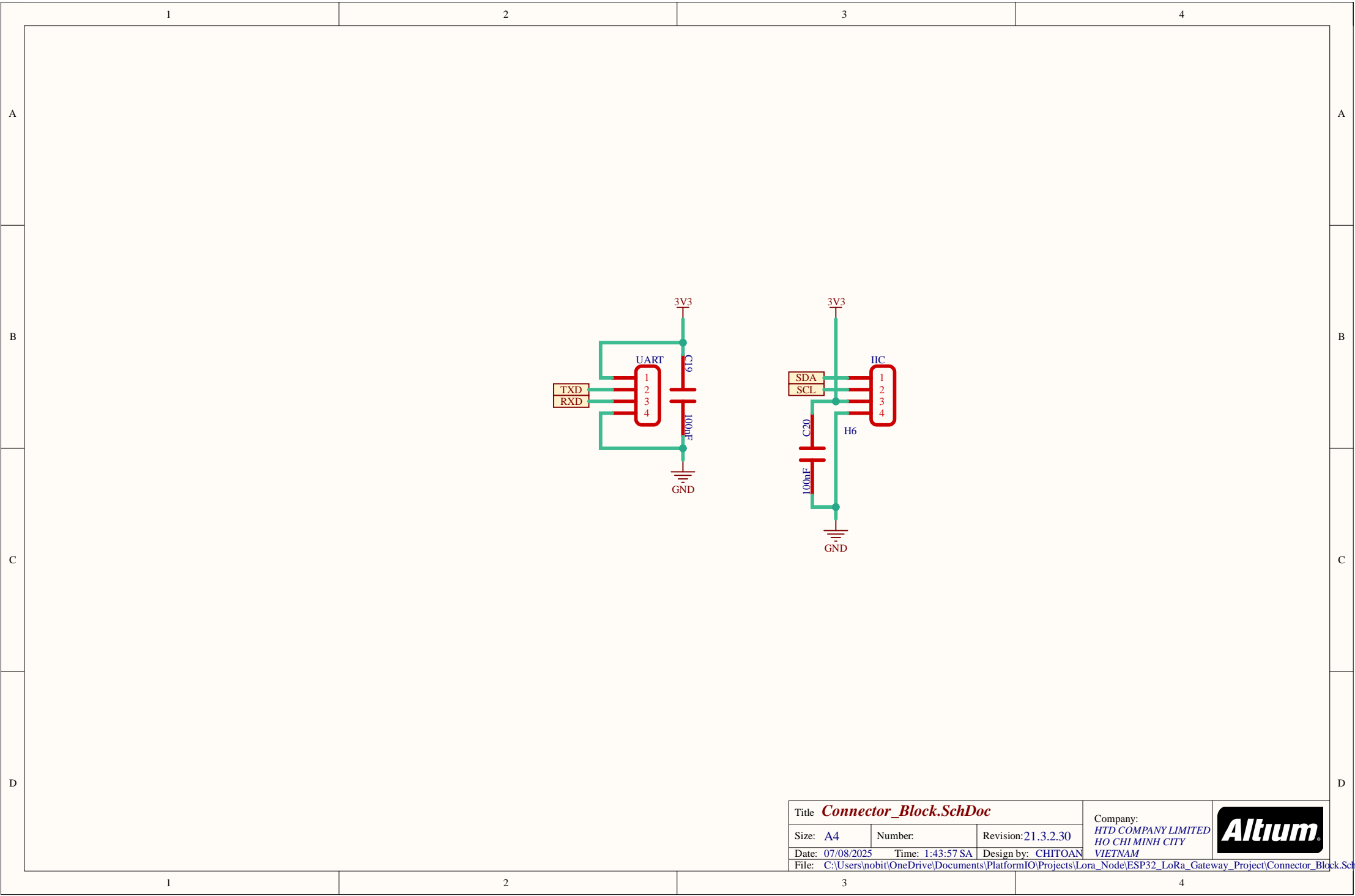


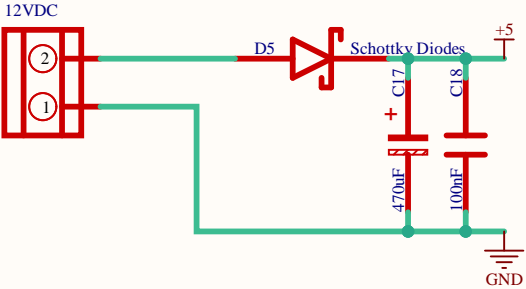



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|---|-------------------------|----------------------------|---|---|
| Title <b><i>Button_Block.SchDoc</i></b>   |                         |                            | Company:<br><b>HTD COMPANY LIMITED</b><br><b>HO CHI MINH CITY</b><br><b>VIETNAM</b> |  |
| Size: <b>A4</b>   | Number:                 | Revision: <b>21.3.2.30</b> |   |   |
| Date: <b>07/08/2025</b>   | Time: <b>1:43:57 SA</b> | Design by: <b>CHITOAN</b>  |   |   |
| File: <b>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\Button_Block.SchDoc</b> |                         |                            |   |   |

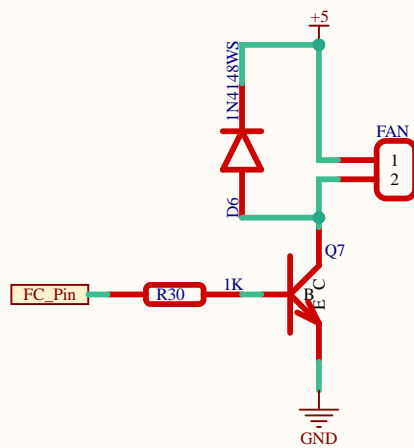



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| Title <b>Buzzer_Block.SchDoc</b>  |                         |                            | Company:<br><b>HTD COMPANY LIMITED</b><br><b>HO CHI MINH CITY</b><br><b>VIETNAM</b> |  |
| Size: <b>A4</b>   | Number:                 | Revision: <b>21.3.2.30</b> |   |   |
| Date: <b>07/08/2025</b>   | Time: <b>1:43:57 SA</b> | Design by: <b>CHITOAN</b>  |   |   |
| File: <b>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\Buzzer_Block.SchDoc</b> |                         |                            |   |   |

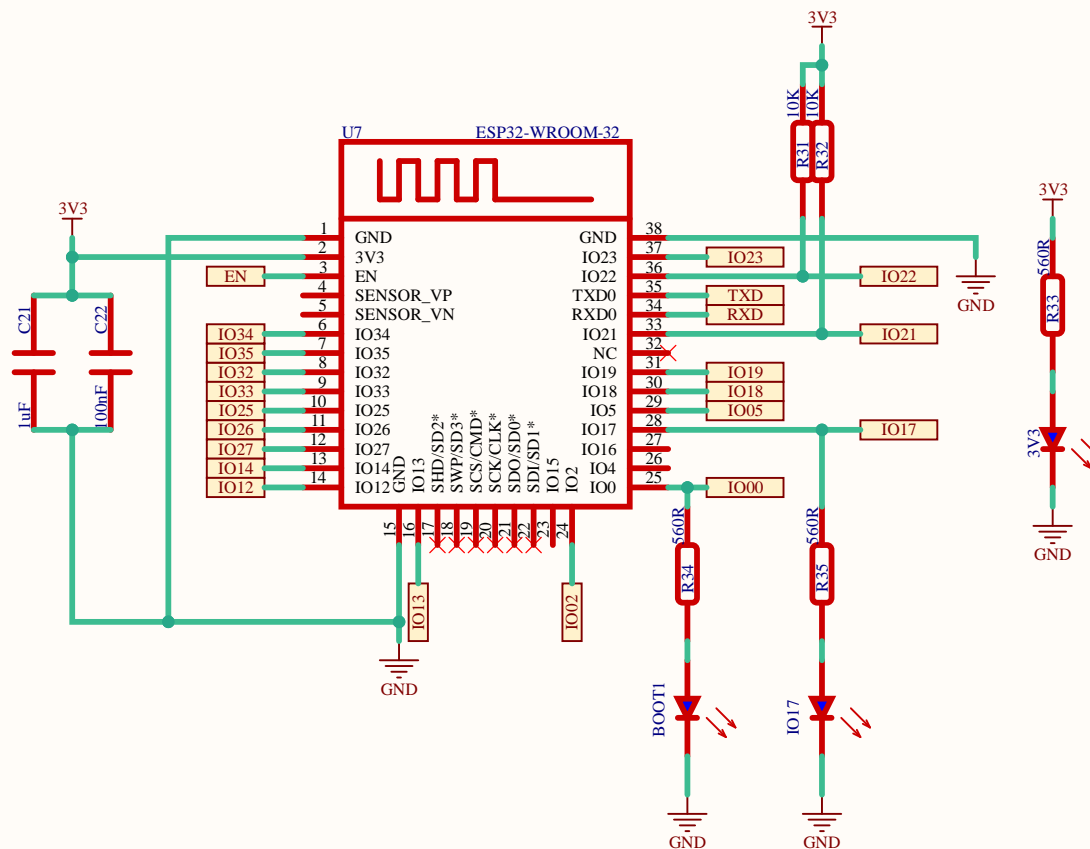





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|--|-------------------------|----------------------------|--|
| Title <b>DC_POWER_Block.SchDoc</b>   |                         |                            | <div>Company:<br/><b>HTD COMPANY LIMITED</b><br/><b>HO CHI MINH CITY</b><br/><b>VIETNAM</b></div> <div></div> |
| Size: <b>A4</b>  | Number:                 | Revision: <b>21.3.2.30</b> |  |
| Date: <b>07/08/2025</b>  | Time: <b>1:43:57 SA</b> | Design by: <b>CHITOAN</b>  |  |
| File: <b>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\DC_POWER_Block.S</b> |                         |                            |  |

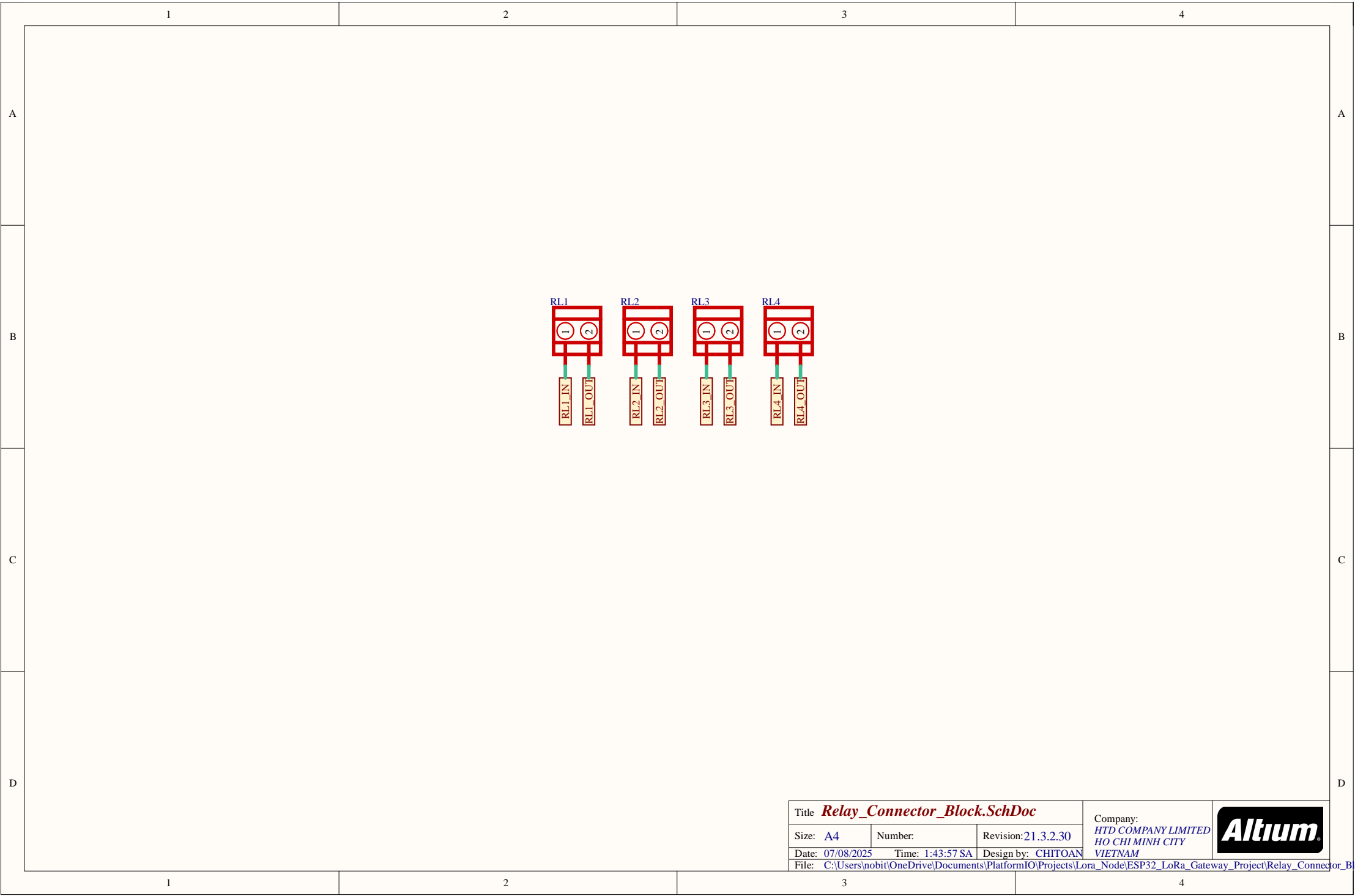


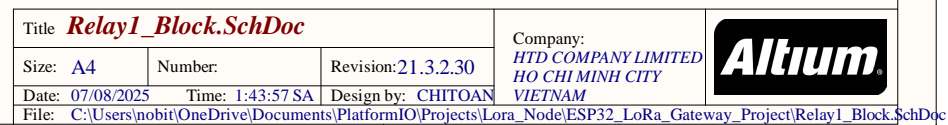
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| Title <i>Fan_Block.SchDoc</i>  |                         |                            | Company:<br><i>HTD COMPANY LIMITED</i><br><i>HO CHI MINH CITY</i><br><i>VIETNAM</i> |  |  |
| Size: <i>A4</i>  | Number:                 | Revision: <i>21.3.2.30</i> |   |   |  |
| Date: <i>07/08/2025</i>  | Time: <i>1:43:57 SA</i> | Design by: <i>CHITOAN</i>  |   |   |  |
| File: <i>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\Fan_Block.SchDoc</i> |                         |                            |   |   |  |

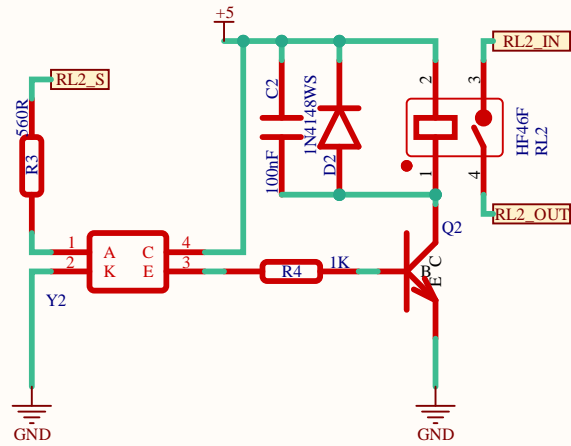



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|--|-------------------------|----------------------------|---|---|
| Title <b>MCU.SchDoc</b>  |                         |                            | Company:<br><b>HTD COMPANY LIMITED</b><br><b>HO CHI MINH CITY</b><br><b>VIETNAM</b> |  |
| Size: <b>A4</b>  | Number:                 | Revision: <b>21.3.2.30</b> |   |   |
| Date: <b>07/08/2025</b>  | Time: <b>1:43:57 SA</b> | Design by: <b>CHITOAN</b>  |   |   |
| File: <b>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\MCU.SchDoc</b> |                         |                            |   |   |

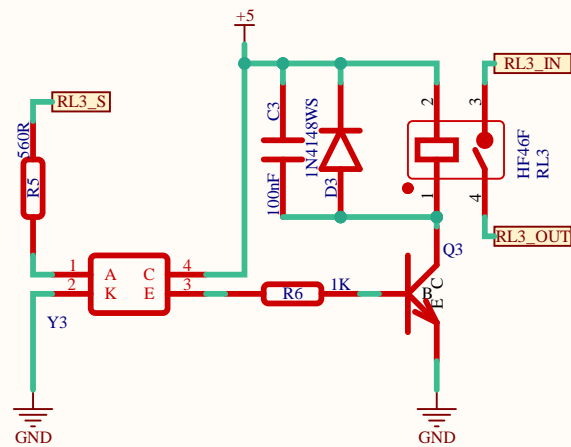





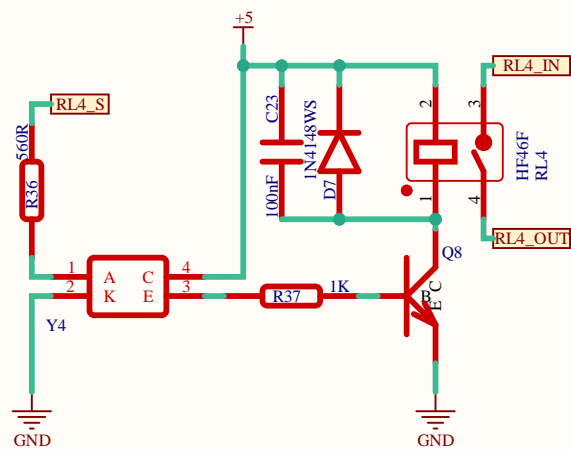





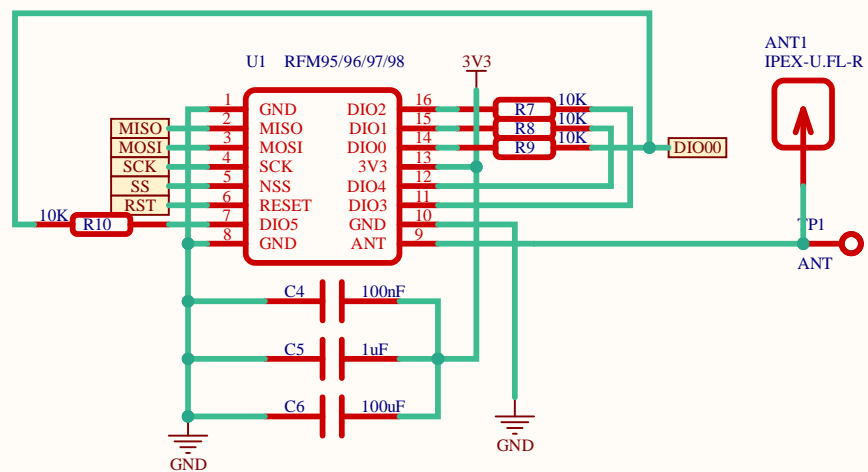
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| Title <i>Relay2_Block.SchDoc</i>  |                         |                            | Company:<br><i>HTD COMPANY LIMITED</i><br><i>HO CHI MINH CITY</i><br><i>VIETNAM</i> |  |
| Size: <i>A4</i>   | Number:                 | Revision: <i>21.3.2.30</i> |   |   |
| Date: <i>07/08/2025</i>   | Time: <i>1:43:57 SA</i> | Design by: <i>CHITOAN</i>  |   |   |
| File: <i>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\Relay2_Block.SchDoc</i> |                         |                            |   |   |




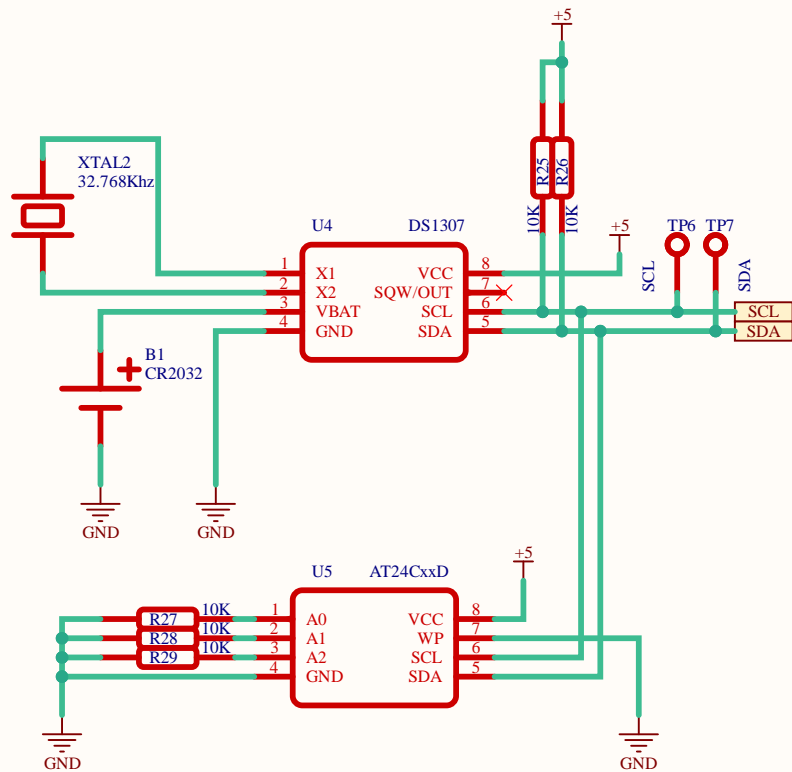
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| Title <b>Relay3_Block.SchDoc</b>  |                         |                            | Company:<br><b>HTD COMPANY LIMITED</b><br><b>HO CHI MINH CITY</b><br><b>VIETNAM</b> |  |
| Size: <b>A4</b>   | Number:                 | Revision: <b>21.3.2.30</b> |   |   |
| Date: <b>07/08/2025</b>   | Time: <b>1:43:57 SA</b> | Design by: <b>CHITOAN</b>  |   |   |
| File: <b>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\Relay3_Block.SchDoc</b> |                         |                            |   |   |




|   |                         |                            |   |   |
|---|-------------------------|----------------------------|---|---|
| Title <b>Relay4_Block.SchDoc</b>  |                         |                            | Company:<br><b>HTD COMPANY LIMITED</b><br><b>HO CHI MINH CITY</b><br><b>VIETNAM</b> |  |
| Size: <b>A4</b>   | Number:                 | Revision: <b>21.3.2.30</b> |   |   |
| Date: <b>07/08/2025</b>   | Time: <b>1:43:57 SA</b> | Design by: <b>CHITOAN</b>  |   |   |
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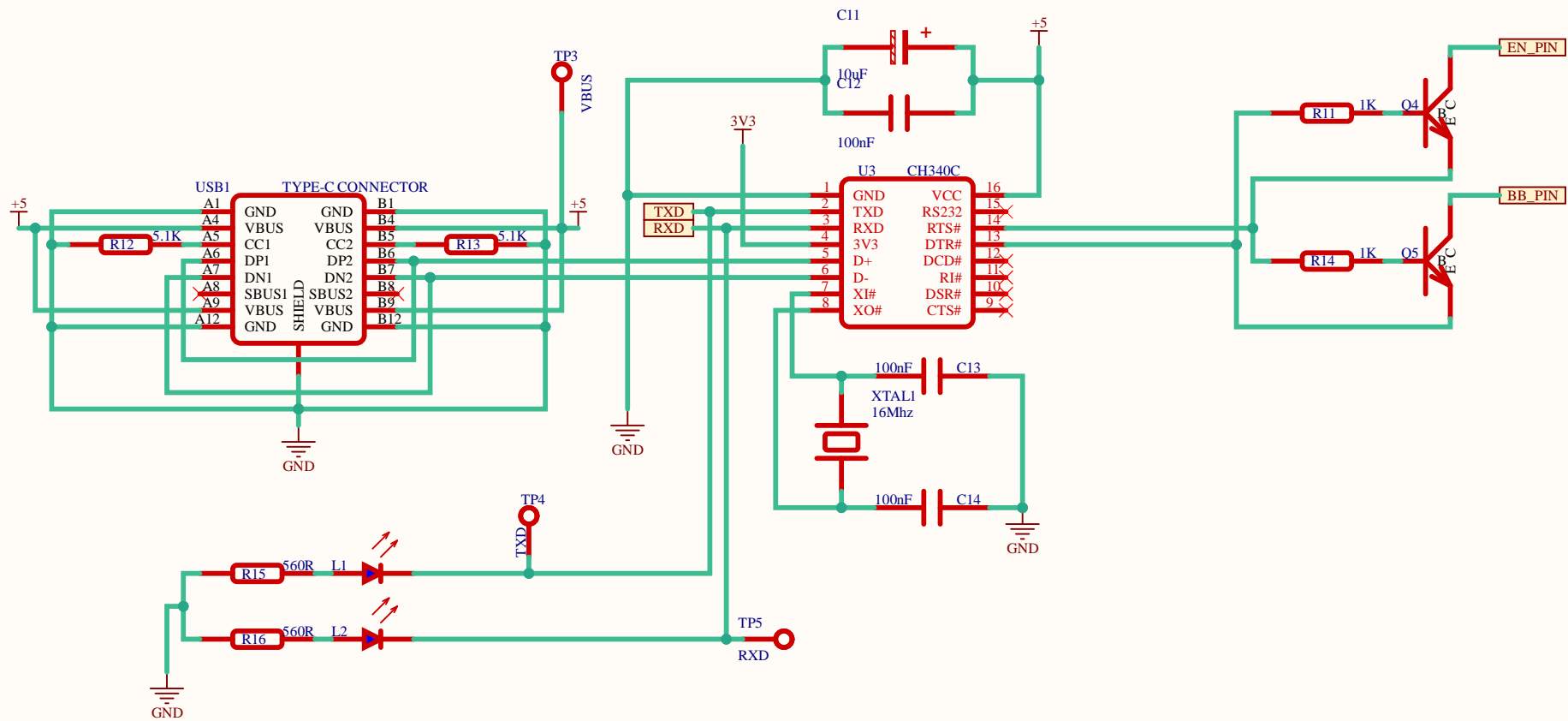
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| Title <b><i>RF_Block.SchDoc</i></b>   |                         |                            | <div>Company:<br/><b>HTD COMPANY LIMITED</b><br/><b>HO CHI MINH CITY</b><br/><b>VIETNAM</b></div> <div></div> |
| Size: <b>A4</b>   | Number:                 | Revision: <b>21.3.2.30</b> |  |
| Date: <b>07/08/2025</b>   | Time: <b>1:43:57 SA</b> | Design by: <b>CHITOAN</b>  |  |
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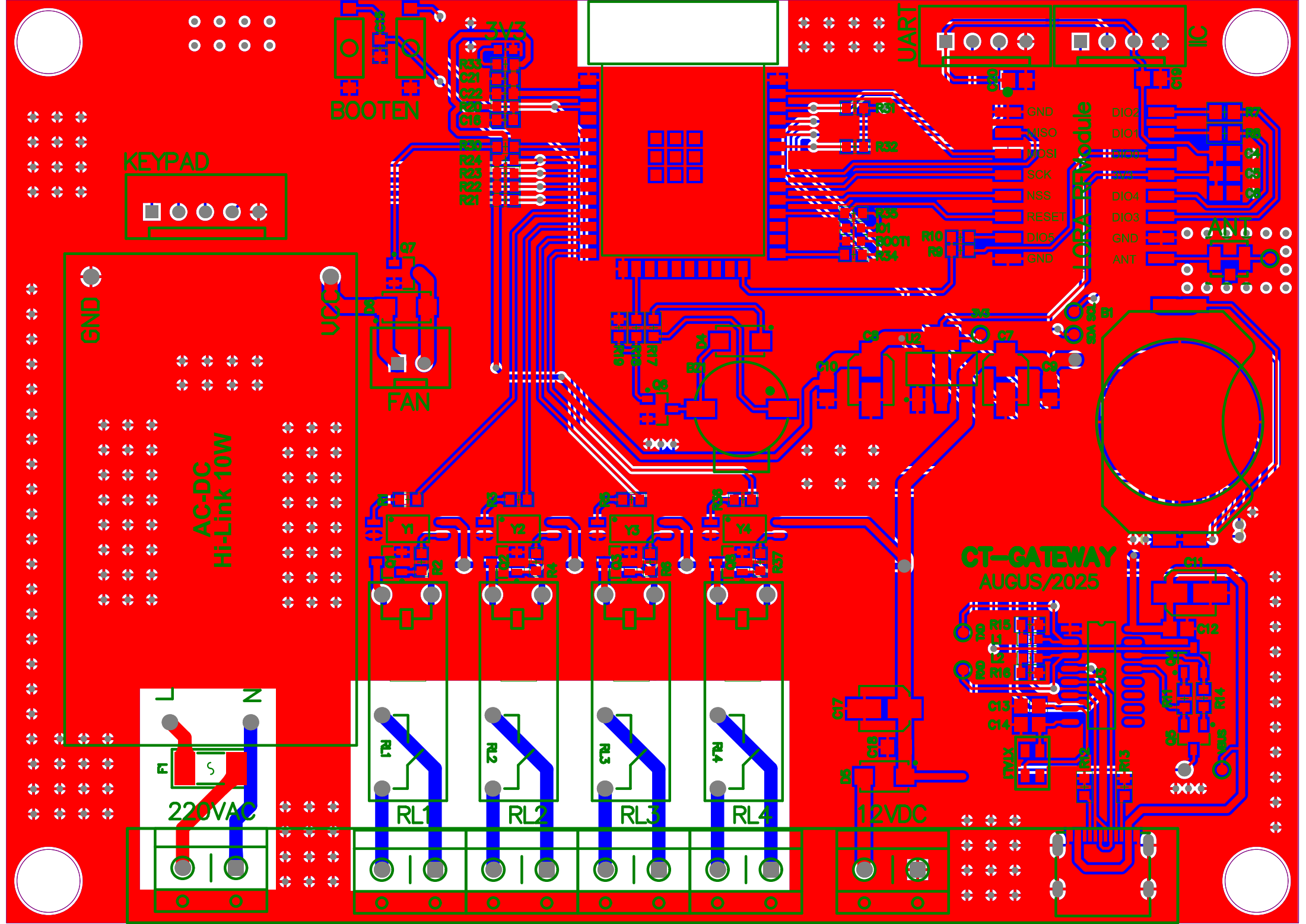
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| Title <b><i>RTC_Block.SchDoc</i></b>   |                         |                            | Company:<br><b>HTD COMPANY LIMITED</b><br><b>HO CHI MINH CITY</b><br><b>VIETNAM</b> |  |
| Size: <b>A4</b>  | Number:                 | Revision: <b>21.3.2.30</b> |   |   |
| Date: <b>07/08/2025</b>  | Time: <b>1:43:57 SA</b> | Design by: <b>CHITOAN</b>  |   |   |
| File: <b>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\RTC_Block.SchDoc</b> |                         |                            |   |   |







|  |                         |                            |   |   |
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| Title <b>USB_Block.SchDoc</b>  |                         |                            | Company:<br><b>HTD COMPANY LIMITED</b><br><b>HO CHI MINH CITY</b><br><b>VIETNAM</b> |  |
| Size: <b>A4</b>  | Number:                 | Revision: <b>21.3.2.30</b> |   |   |
| Date: <b>07/08/2025</b>  | Time: <b>1:43:58 SA</b> | Design by: <b>CHITOAN</b>  |   |   |
| File: <b>C:\Users\nobit\OneDrive\Documents\PlatformIO\Projects\Lora_Node\ESP32_LoRa_Gateway_Project\USB_Block.SchDoc</b> |                         |                            |   |   |



# Board Stack Report