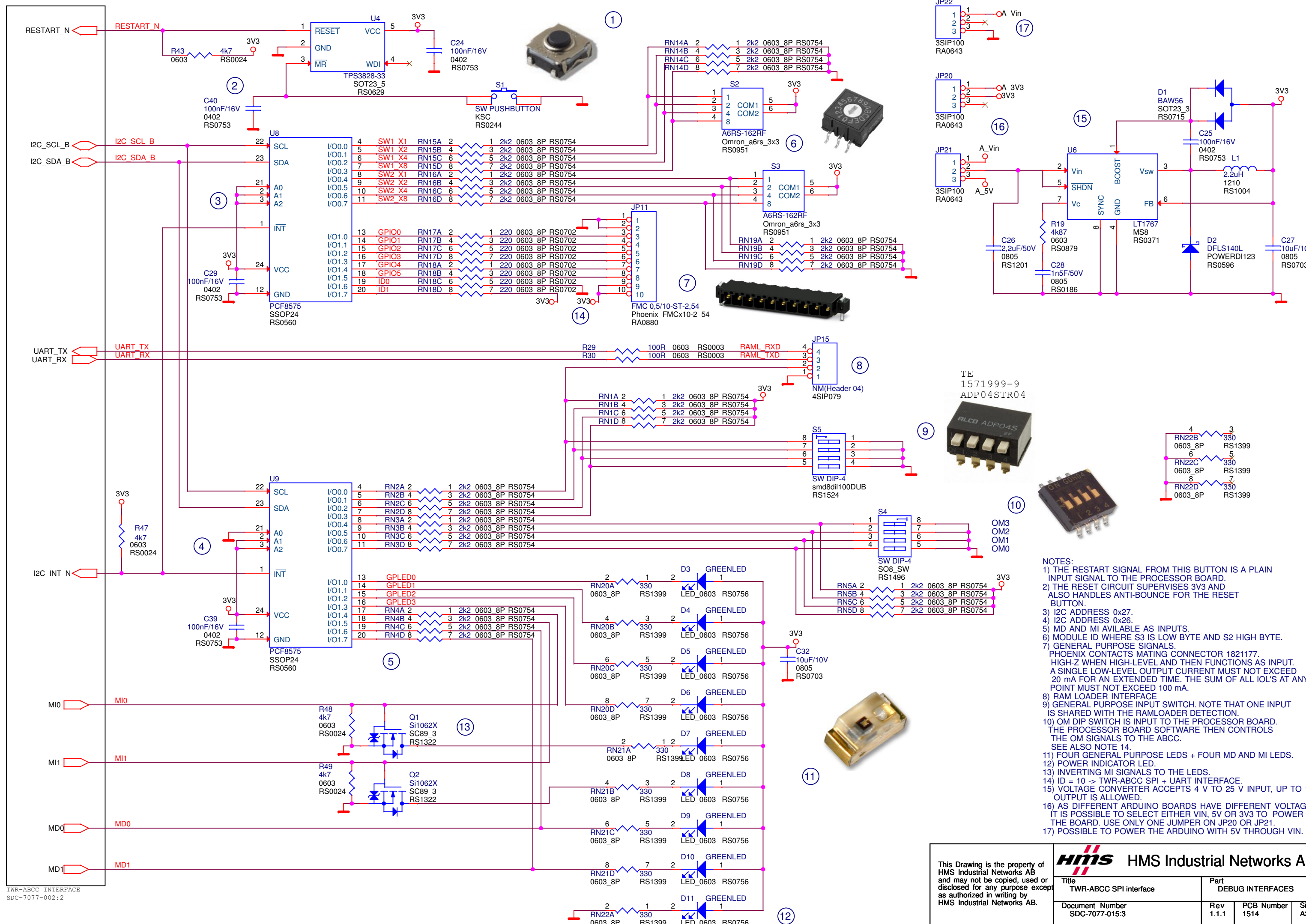


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- NOTES:
- 1) THE RESTART SIGNAL FROM THIS BUTTON IS A PLAIN INPUT SIGNAL TO THE PROCESSOR BOARD.
 - 2) THE RESET CIRCUIT SUPERVISES 3V3 AND ALSO HANDLES ANTI-BOUNCE FOR THE RESET BUTTON.
 - 3) I2C ADDRESS 0x27.
 - 4) I2C ADDRESS 0x26.
 - 5) MD AND MI AVAILABLE AS INPUTS.
 - 6) MODULE ID WHERE S3 IS LOW BYTE AND S2 HIGH BYTE.
 - 7) GENERAL PURPOSE SIGNALS. PHOENIX CONTACTS MATING CONNECTOR 1821177. HIGH-Z WHEN HIGH-LEVEL AND THEN FUNCTIONS AS INPUT. A SINGLE LOW-LEVEL OUTPUT CURRENT MUST NOT EXCEED 20 mA FOR AN EXTENDED TIME. THE SUM OF ALL IOL'S AT ANY POINT MUST NOT EXCEED 100 mA.
 - 8) RAM LOADER INTERFACE
 - 9) GENERAL PURPOSE INPUT SWITCH. NOTE THAT ONE INPUT IS SHARED WITH THE RAMLOADER DETECTION.
 - 10) OM DIP SWITCH IS INPUT TO THE PROCESSOR BOARD. THE PROCESSOR BOARD SOFTWARE THEN CONTROLS THE OM SIGNALS TO THE ABCC. SEE ALSO NOTE 14.
 - 11) FOUR GENERAL PURPOSE LEDs + FOUR MD AND MI LEDs.
 - 12) POWER INDICATOR LED.
 - 13) INVERTING MI SIGNALS TO THE LEDs.
 - 14) ID = 10 -> TWR-ABCC SPI + UART INTERFACE.
 - 15) VOLTAGE CONVERTER ACCEPTS 4 V TO 25 V INPUT, UP TO 1 A OUTPUT IS ALLOWED.
 - 16) AS DIFFERENT ARDUINO BOARDS HAVE DIFFERENT VOLTAGES IT IS POSSIBLE TO SELECT EITHER VIN, 5V OR 3V3 TO POWER THE BOARD. USE ONLY ONE JUMPER ON JP20 OR JP21.
 - 17) POSSIBLE TO POWER THE ARDUINO WITH 5V THROUGH VIN.

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