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**Power Supply**

The Power Supply section includes a +5V input, a 10V 0805 capacitor (C3), a 10pF NP0 capacitor (C4), a 100nF capacitor (C6), a 10k resistor (R1), a 150k 1% resistor (R4), a 22pF ±5% NP0 capacitor (C8), a 33k 2% resistor (R2), and an MP2162GQH voltage regulator (U2). It also features a 1u/2A SWPA252012S1R0NT inductor (L2) and a 6.3V X5R capacitor (C14).

**USB ⇔ UART Bridge**

The USB to UART Bridge section includes a USB Type-C port (S1), a USB to UART bridge (U1), a 74LVC1G125DCK buffer (U4), and a CP2104-F03-GM USB-to-UART bridge (U3). It also includes various capacitors (C1, C2, C5, C7, C9, C10, C11, C12, C13) and resistors (R3, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100).

**Core**

The Core section includes a Domino Pi core (M1), a USB to UART bridge (U1), a 74LVC1G125DCK buffer (U4), and a CP2104-F03-GM USB-to-UART bridge (U3). It also includes various capacitors (C1, C2, C5, C7, C9, C10, C11, C12, C13) and resistors (R3, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100).

**North Connector**

The North Connector section includes a USB Type-C port (S1), a USB to UART bridge (U1), a 74LVC1G125DCK buffer (U4), and a CP2104-F03-GM USB-to-UART bridge (U3). It also includes various capacitors (C1, C2, C5, C7, C9, C10, C11, C12, C13) and resistors (R3, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100).

**South Connector**

The South Connector section includes a USB Type-C port (S1), a USB to UART bridge (U1), a 74LVC1G125DCK buffer (U4), and a CP2104-F03-GM USB-to-UART bridge (U3). It also includes various capacitors (C1, C2, C5, C7, C9, C10, C11, C12, C13) and resistors (R3, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100).

**Antenna**

The Antenna section includes a 2.4GHz antenna (A1) and a 50Ω antenna connector (ANTO).

**Jumpstart**

The Jumpstart section includes a jumpstart switch (SW1), a 1k resistor (R17), and a 10nF capacitor (C20).

**Resistors are 5% 1/16W 0402 unless otherwise specified**  
**Ceramic capacitors are ±10% 50V X7R dielectric 0402 unless otherwise specified**

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**Power Supply**

**North Connector**

**Antenna**

**USB ↔ UART Bridge**

**Core**

**South Connector**

**JUMPSTART SWITCH**

**Jumpstart**

Resistors are 5% 1/16W 0402 unless otherwise specified  
Ceramic capacitors are ±10% 50V X7R dielectric 0402 unless otherwise specified

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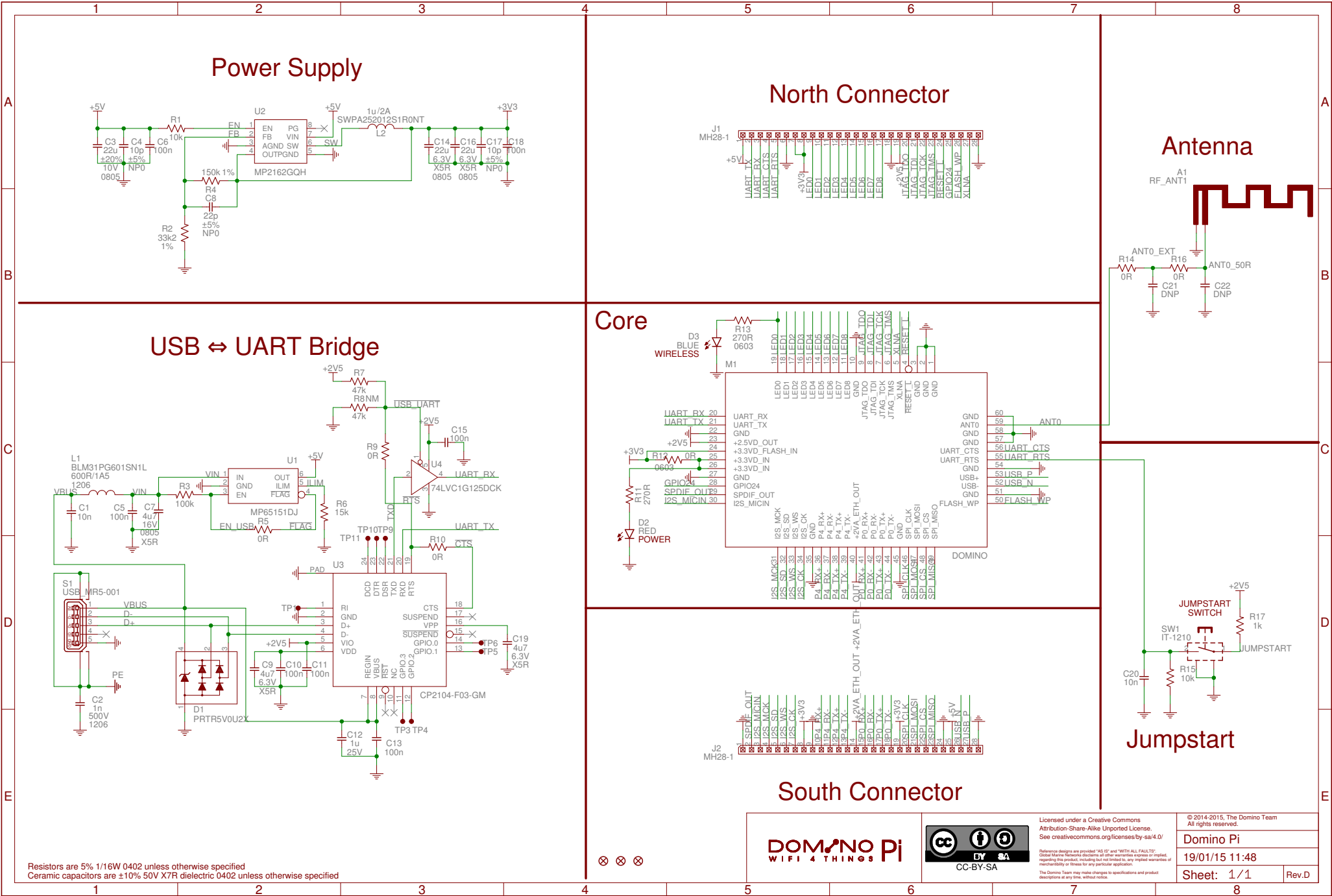
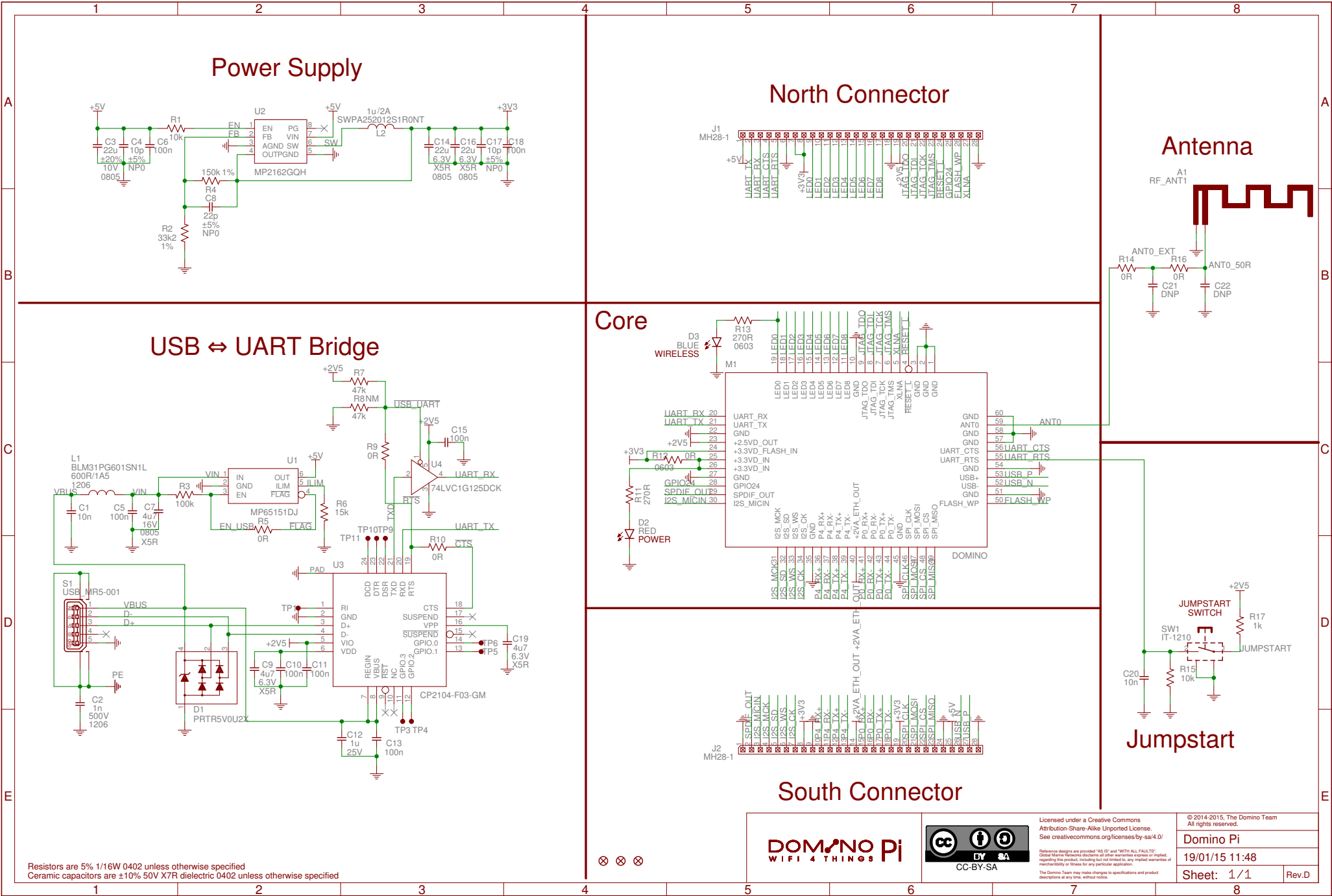
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**Power Supply**

The Power Supply section (top left) features a +5V input connected to a network of capacitors (C3, C4, C6, C14, C16, C17, C18) and resistors (R1, R2, R4). It includes an MP2162GQH voltage regulator (U2) and a 1u/2A SWPA252012S1R0NT inductor (L2) to provide a stable +3V3 output.

**USB ⇌ UART Bridge**

The USB to UART Bridge (middle left) uses a CP2104-F03-GM (U3) to interface between a USB Type-C port (S1) and the board's UART pins. It includes a USB-to-VBUS converter (D1) and a USB-to-GND converter (D2). The bridge is powered by a +2V5 supply and includes various decoupling capacitors (C1, C2, C5, C7, C9, C10, C11, C12, C13, C15, C19).

**Core**

The Core section (middle right) is the central processing unit, featuring a Domino Pi chip (M1) with various pins for UART, USB, SPI, I2S, and ETH. It is powered by a +3V3 supply and includes a 2.4GHz antenna (A1) for wireless communication. The core also includes a USB-to-UART bridge (U4) and a USB-to-VBUS converter (D1).

**North Connector**

The North Connector (top right) is a 28-pin connector (J1) that provides a +5V supply and a +3V3 supply to the board. It also includes pins for UART, I2S, and ETH.

**South Connector**

The South Connector (bottom right) is a 28-pin connector (J2) that provides a +5V supply and a +3V3 supply to the board. It also includes pins for UART, I2S, and ETH.

**Antenna**

The Antenna (middle right) is a 2.4GHz antenna (A1) used for wireless communication. It is connected to the board's ANTENNA pin and includes a matching network (R14, R16, C21, C22).

**Jumpstart**

The Jumpstart section (bottom right) includes a jumpstart switch (SW1) and a 1k resistor (R17) to provide a +2V5 supply to the board. It also includes a 10nF capacitor (C20) and a 10k resistor (R15).

**Resistor and Capacitor Values**

Resistors are 5% 1/16W 0402 unless otherwise specified.  
Ceramic capacitors are ±10% 50V X7R dielectric 0402 unless otherwise specified.

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**Power Supply**

The Power Supply section (top left) features a +5V input connected to a network of capacitors (C3, C4, C6, C14, C16, C17, C18) and resistors (R1, R2, R4). It includes an MP2162GQH voltage regulator (U2) and a 1u/2A SWPA252012S1R0NT inductor (L2) to provide a stable +3V3 output.

**USB ⇌ UART Bridge**

The USB to UART Bridge (middle left) uses a CP2104-F03-GM (U3) to interface between a USB Type-C port (S1) and the board's UART pins. It includes a USB-to-VBUS converter (D1) and a USB-to-GND converter (D2). The bridge is powered by a +2V5 supply and includes various decoupling capacitors (C1, C2, C5, C7, C9, C10, C11, C12, C13, C15, C19).

**Core**

The Core section (middle right) is the central processing unit, featuring a Domino Pi chip (M1) with various pins for UART, USB, SPI, I2S, and ETH. It is powered by a +3V3 supply and includes a 2.4GHz antenna (A1) for wireless communication. The core also includes a USB-to-UART bridge (U4) and a USB-to-VBUS converter (D1).

**North Connector**

The North Connector (top right) is a 28-pin connector (J1) that provides a +5V supply and a +3V3 supply to the board. It also includes pins for UART, I2S, and ETH.

**South Connector**

The South Connector (bottom right) is a 28-pin connector (J2) that provides a +5V supply and a +3V3 supply to the board. It also includes pins for UART, I2S, and ETH.

**Antenna**

The Antenna (middle right) is a 2.4GHz antenna (A1) used for wireless communication. It is connected to the board's ANTENNA pin and includes a matching network (R14, R16, C21, C22).

**Jumpstart**

The Jumpstart section (bottom right) includes a jumpstart switch (SW1) and a 1k resistor (R17) to provide a +2V5 supply to the board. It also includes a 10nF capacitor (C20) and a 10k resistor (R15).

**Resistor and Capacitor Values**

Resistors are 5% 1/16W 0402 unless otherwise specified.  
Ceramic capacitors are ±10% 50V X7R dielectric 0402 unless otherwise specified.

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**Power Supply**

The Power Supply section includes a +5V input, a 10V 0805 capacitor (C3), a 10pF NP0 capacitor (C4), a 100nF capacitor (C6), a 10k resistor (R1), a 150k 1% resistor (R4), a 22pF ±5% NP0 capacitor (C8), a 33k 2% resistor (R2), and an MP2162GQH voltage regulator (U2). The output is a +3V3 supply.

**USB ⇔ UART Bridge**

The USB to UART Bridge section includes a USB Type-C port (S1), a USB-to-UART bridge (U1), a 74LVC1G125DCK buffer (U4), and various passive components like resistors (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100) and capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100).

**Core**

The Core section includes the Domino Pi core module (M1), a USB-to-UART bridge (U1), a 74LVC1G125DCK buffer (U4), and various passive components like resistors (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100) and capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100).

**North Connector**

The North Connector section includes a USB Type-C port (J1) and various passive components like resistors (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100) and capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100).

**South Connector**

The South Connector section includes a USB Type-C port (J2) and various passive components like resistors (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100) and capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100).

**Antenna**

The Antenna section includes a 2.4GHz antenna (A1) and various passive components like resistors (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100) and capacitors (C1, C2, C3, C4, C5, C6, C7, C8,

**Power Supply**

**North Connector**

**Antenna**

**USB ↔ UART Bridge**

**Core**

**South Connector**

**JUMPSTART SWITCH**

**Jumpstart**

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