AIUDA WIRING ARCHITECTURE

12-60V Battery Level Indicator
+ -
22 AWG 22 AWG
14 AWG
Lead Acid Battery 12V/40Ah
- +
14 AWG 14 AWG
Lead Acid Battery 12V/40Ah
- +
14 AWG
Switch Panel
GND
C S1 NO
C S2 NO
S3 NO
S4 NO
S5 NO
GND C
16 AWG 16 AWG
14 AWG
16 AWG
16 AWG
Lithium Ion Battery 12V/40Ah
- +
14 AWG
Lead Acid Battery 12V/40Ah
- +
14 AWG
24/12V/10A Car Battery Charger
+ -
22 AWG
- + 12-60V Battery Level Indicator
15 Pins Female VGA port
5V 5GND 1 2 3
4 5 6 7 8
9 10 11 12 12GND
16 AWG
200x120x75mm Waterproof Case Enclosure
71mm x 91mm Universal PCB
KF301 2 pin
KF301 2 pin
KF301 2 pin
GND
VIN
14 AWG
14 AWG
14 AWG
Female Header 2.00Mm 10Pin
Female Header 2.00Mm 10Pin
BTS7960 Motor Driver
B- M-
B+ M+
GND VCC R_EN L_EN RPWM LPWM
16 AWG
16 AWG
F-M Dupont Cable
GM14934A174-R3 DC Motor with Encoder
- +
12V 16mm/s Linear Actuator
- +
16 AWG
16 AWG
NO C NC NO C NC
CH1 CH2
2 Channel 5V Relay Module SPDT
GND IN1 IN2 VCC
M-M Dupont Cable
F-M Dupont Cable
3.3V GND 5V
Female Header Pin
Arduino Mega ATmega2560
24AWG
Female Header Pin
D7 D8 D4 D5 D6 D2 D21 D20 D9 D10 D11
KY-024 Linear Magnetic Hall Sensor Module
Gnd VCC D0
MPU6050 Module
Gnd SDA SCL VCC
IN GND Throttle Circuit OUT
USB-B Port
USB A to USB B Cable
M-M Dupont Cable
200x120x75mm Waterproof Case Enclosure
Etrike Drive / Reverse Switch
NO C NC
Etrike Throttle Hall Sensor
GND VCC AO
22 AWG
Etrike Control Circuit
GND 5V
TH-IN D/R-IN
NO C NC NO C NC
CH1 CH2
2 Channel 5V Relay Module SPDT
GND IN1 IN2 VCC
F-M Dupont Cable
Gizduino V5 Atmega328
Female Header Pin
GND D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 A0
USB Mini-B Port
USB A TO USB B MINI Cable
16 AWG
NO C NC CH1
NO C NC CH2
NO C NC CH3
NO C NC CH4
NO C NC CH5
NO C NC CH6
NO C NC CH7
NO C NC CH8
NO C NC C9
NO C NC C10
NO C NC C11
NO C NC CH12
NO C NC CH13
NO C NC CH14
NO C NC CH15
NO C NC CH16
16 Channel 5V Relay Module SPDT
KF301 2 pin
C1 C2
C3 C4
C5 C6
C7 C8
C9 C10
C11 C12
C13 C14
C15 C16
GND GND
Male Header Pin
15 Pins Male VGA
Raspberry pi Camera Module V2
Raspberry pi Camera Module V2
Cable Flex Raspberry pi Camera 2m
Cable Flex Raspberry pi Camera 2m
200x120x75mm Waterproof Case Enclosure
USB INTERFACE
USB to TLL Serial CH340 Module
5V TX RX GND
USB/5V O1/TX1 O0/RX1 GND
GPRS GSM GPS BDG A9G Module Development Board
1 USB 3.0
2 USB 3.0
3 USB 3.0
4 USB 3.0
CSI Port 1
CSI Port 2
JETSON Xavier NX Developer Board
HDMI Port
Male DC Power Plug Jack Adapter 5.5*2.1mm
Female DC Power Plug Jack Adapter 5.5*2.1mm
3A
Vin
71mm x 91mm Universal PCB
KF301 2 pin
16 AWG
VIN VOUT
300Watts DC to DC Step Down Module
GND GND
Prepaid Wifi Router
Micro USB Cable
Micro USB Cable
HDMI Cable
Micro USB Port DC
Micro USB Port TOUCH
HDMI Port DISPLAY
7 inch LED Touch Screen Display
Cabinet 1
Cabinet 2
Cabinet 3
Cabinet 4
Cabinet 5
Cabinet 6
Cabinet 7
Cabinet 8
Cabinet 9
Cabinet 10
Cabinet 11
Cabinet 12
Ultraviolet Disinfection LED Strips
Solenoid Lock
Red
Blue
LEGEND
24V
12V
5V
3.3V
GND
Module / Device
MCU / Development Board
Connector / Cable
External Component