

# IamaPLC Abbreviation Index

## 0..9

1-Wire

7-segment display (Arduino)

74HC164 - 7-segment control IC

## A

A0221AU / A02YYUW Waterproof Ultrasonic Distance Sensor with UART communication

ABP (LoRa Activation by Personalization)

ABS (Acrylonitrile Butadiene Styrene)

Allegro ACS758 Hall-effect linear current sensors

AD8221AR: CJMCU-8221 Analog Devices Precision instrumentation amplifier module

ADS111x: Texas Instruments ADCs: Delta-sigma Converters (ADS1110, ADS1112, ADS1113, ADS1114, ADS1115, ADS1118, ADS1119)

ADS12xx: Texas Instruments ADCs: Delta-sigma Converters (ADS1220, ADS1232, ADS1234, ADS1256, ADS1261, ADS1263)

AHT20/BMP280 Modul - Temperature, Humidity, Air pressure with Arduino example code

AK-8963: Magnetometer

AM-312: PIR sensors

AM-2302: Temperature Humidity Sensor

AP-3216 / CJMCU-3216 integrated digital ambient light and proximity sensor module/IC with I<sup>2</sup>C communication

APDS-9900: Avago ALS and proximity detection sensors with I<sup>2</sup>C communication

APDS-9930: Avago ALS and proximity detection sensors with I<sup>2</sup>C communication

APDS-9960: Avago ALS and proximity detection sensors with I<sup>2</sup>C communication

Arduino

AS5600: Magnetic Induction Angle Measurement Sensor Module

ASA (Acrylonitrile Styrene Acrylate)

AS-i

## B

BeiDou: China's Navigation Satellite System

BME280: Temperature Humidity Air pressure Sensor

BME680: Temperature Humidity Air pressure Sensor

BMP180: Temperature Air-pressure Sensor

BMP280: Temperature Air-pressure Sensor

AHT20 / BMP280: Temperature Air-pressure comi modul

## C

CCS811 Gas Sensor (VOCs TVOC CO2)  
CJMCU-164: SN74HC164D 8-bit Shift Register Module  
CJMCU-219: INA-219 breakout board/IC with I<sup>2</sup>C communication  
CJMCU-680: Temperature/Humidity/Barometric Pressure/Gas (VOC) Module  
CJMCU-750: SC16IS750 / SC16IS752: One or two serial (UART) ports from microcontroller via I<sup>2</sup>C or SPI communication  
CJMCU-752: SC16IS750 / SC16IS752: One or two serial (UART) ports from microcontroller via I<sup>2</sup>C or SPI communication  
CJMCU-758: ACS758 Hall-effect linear current sensors  
CJMCU-811: CCS811 Gas Sensor (VOCs TVOC CO2)  
CJMCU-1080: HDC Texas Instruments Temperature/humidity sensors with I<sup>2</sup>C communication  
CJMCU-2317: MCP23017 / MCP23S17 16-Bit I/O Expander with Serial Interface I<sup>2</sup>C / SPI  
CJMCU-3216: AP-3216 integrated digital ambient light and proximity sensor module/IC with I<sup>2</sup>C communication  
CJMCU-3901: PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication  
CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication  
CJMCU-8221 Analog Devices Precision instrumentation amplifier module

## D

D6T-1A: Non-Contact Thermal Sensor  
D6T-8L: Non-Contact Thermal Sensor  
D6T-32L: Non-Contact Thermal Sensor  
D6T-44L: Non-Contact Thermal Sensor  
DHT11: Temperature Humidity Sensor  
DHT20: Temperature Humidity Sensor  
DHT22: Temperature Humidity Sensor  
DM56A04 / DM36B06 digital tube display with Modbus Communication  
DPS310: Barometric Pressure Sensor  
DS18B20 1-Wire Digital Thermometer

## E

EDA (Electrodermal Activity): CJMCU-6701 Biosensor for measuring with SPI communication  
EIB  
EKMB/EKMC series: PIR sensors  
EM2389: Metrawatt EM2389 MID energy meters  
ENS-160 ScioSense Multi-gas sensors with I<sup>2</sup>C communication  
ESP: Espressif Arduino compatibel board family

## F

FMCW Radar Module RD-xx

## G

Galileo: European navigation satellite system

GLONASS: Russian Global Navigation Satellite System

GM-302b: alcohol gas Sensor

GM-502b: Alcohol (C<sub>2</sub>H<sub>5</sub>OH) Hydrogen(H<sub>2</sub> Formaldehyde(CH<sub>2</sub>O) Sensor

GM-702b: Carbon monoxide (CO) Hydrogen (H<sub>2</sub>)

GPS: Global Positioning System

GRV GAS SENS V2 Gas

GSR (Galvanic Skin Response): CJMCU-6701 Biosensor for measuring with SPI communication

GY-21: Temperature Humidity Modul

GY-68 Modul: Temperature Air-press Modul

GY-213V-HDC1080: HDC Texas Instruments Temperature/humidity sensors with I<sup>2</sup>C communication

GY-511: 6DOF sensor module

GY-521: MPU-6050 (HW-123, GY-521) 6-axis MotionTracking device

GY-9250: 9-axis motion detection module

GY-BME280 Modul: Temperature Air-press Modul

GY-BME680 Modul: Temperature Humidity Air-press Modul

GY-PAJ7620: Integrated Gesture Recognition Sensor

## H

HC-SR04 Ultrasonic Sensor Module

HC-SR501: PIR sensors

HC-SR505: PIR sensors

HDC 1080: Temperature Humidity Sensor

HDC1080 Modul: Temperature Humidity Modul

HT16K33 display controller with I<sup>2</sup>C communication

HTU21 TE Connectivity temperature/humidity sensors with I<sup>2</sup>C communication

HTU21D: Temperature Humidity Modul

Hyduo5x1b64edtk1244: TM1650 7-Segment Display with Modbus Communication

HW0108 - TXS0108E 8-channel, bidirectional 5V-3.3V logic level converter

HW097: TTL to RS485 Module

HW123: MPU-6050 (HW-123, GY-521) 6-axis MotionTracking device

HW611: BMP280: Temperature Air-pressure Sensor

HW617: TCA9548A Low-Voltage 8-Channel I<sup>2</sup>C Switch Module

HX711 24-bit analog-to-digital converter (ADC)

## I

I<sup>2</sup>C  
CJMCU-219/INA-219 breakout board/IC with I<sup>2</sup>C communication  
INA219: digital current, voltage, and power monitor with I<sup>2</sup>C communication  
INA226: current/voltage/power monitor with I<sup>2</sup>C communication  
INA228: ultra-precise, high-resolution digital power, energy, and charge monitor with an I<sup>2</sup>C interface  
INA237: is an ultra-precise, 16-bit digital power monitor with I<sup>2</sup>C communication  
INA238: Ultra-precise digital power monitor 16-bit delta-sigma ADC with I<sup>2</sup>C communication  
INA260: high-precision digital power monitor with I<sup>2</sup>C communication  
INA3221: current and bus voltage monitor with 3 channels I<sup>2</sup>C communication

## J

## K

KNX

## L

Labview  
LoRa (long range)  
LoRaWAN (long range wide area network)  
LPWA (LoRa low-power, wide-area)  
LSM303DLHC: GY-511 6DOF sensor module  
LTC-3588 Nanopower Energy Harvesting Power Supply

## M

M01 - V0.4 Laser ranging sensor with UART communication  
MAX30100/MAX30102 Heart Rate Click Sensor Module  
MAX31865 RTD to Digital Converter - PT100/PT1000 Platine  
MAX4466/MAX9814: Low-noise Microphone Preamplifiers  
MAX485: TTL to RS485 Module  
MCP23017 / MCP23S17 (CJMCU-2317) 16-Bit I/O Expander with Serial Interface I<sup>2</sup>C / SPI  
MH-Z19 series of NDIR CO<sub>2</sub> sensors (MH-Z19C, MH-Z19B, MH-Z19E)  
MKR: Arduino board family  
Modbus  
MPU-6050 (HW-123, GY-521) 6-axis MotionTracking device

MPU-9250: 9-axis motion detection module  
Winsen MQ-2: Gas Sensor smoke LPG (liquefied petroleum gas) propane hydrogen  
Winsen MQ-3: Gas Sensor alcohol (C<sub>2</sub>H<sub>5</sub>OH) Small sensitivity: Benzine gas  
Winsen MQ-4: Gas Sensor CH<sub>4</sub> gas Natural gas LNG  
Winsen MQ-5: Gas Sensor LPG Iso-butane Propane  
Winsen MQ-6: Gas Sensor Town gas Natural gas LPG LNG Iso-butane Propane  
Winsen MQ-7: Gas Sensor CO  
Winsen MQ-8: Gas Sensor H<sub>2</sub>  
Winsen MQ-9: Gas Sensor CO CH<sub>4</sub> gas LPG  
Winsen MQ-131: Gas Sensor ozone  
Winsen MQ-135: Gas Sensor NO<sub>x</sub> NH<sub>3</sub> alcohol Benzene smoke CO<sub>2</sub>  
Winsen MQ-137: Gas Sensor ammonia (NH<sub>3</sub>)  
MQTT: MQ Telemetry Transport

## N

NT18B07: 7 Kanal RS485 Temperatur Sensor with Modbus RTU  
NwkSKey (LoRA network session key)

## O

O<sub>2</sub>-A2: Oxigen Sensor  
OLED (SSH1106/SSD1306) Display with I<sup>2</sup>C communication  
OCX: Operational Control System  
OTAA (LoRa Over-The-Air Activation)

## P

PAJ7620U2: Gesture recognition sensors/module with I<sup>2</sup>C communication  
PCA9306: Voltage level translator  
PCF8574: 8-bit I/O expander chip  
PETG (Polyethylene terephthalate glycol)  
PIR sensors  
PLA (Polylactic acid)  
PMW-3901 / CJMCU-3901 compact optical flow sensor module/IC by PixArt with SPI communication  
POE: Power over Ethernet  
PT100 / PT1000 sensor  
PTA8C04 4-channel PT100 Modbus Modul with Modbus RTU

## Q

Q200: multifunctional device with power quality class A  
QZSS: Japan's Quasi-Zenith Satellite System

## R

RA-01: AI Thiker LoRA modul, without ext. antenne  
RA-02: AI Thiker LoRA modul, with ext. antenne  
RCWL-0516: Microwave radar sensor module  
RD-xx - Ai-Thiker Radar Module with UART communication  
RS-232  
RS-422  
RS-485  
RSTP: Rapid Spanning Tree Protocol  
RTD (Resistance Temperature Detectors) - PT100 / PT1000 sensor

## S

SC16IS750 / SC16IS752: One or two serial (UART) ports from microcontroller via I<sup>2</sup>C or SPI communication  
SCD40-D-R2: CO2 / Air-quality / Temperature / Humidity Sensor  
SEN0311: A0221AU / A02YYUW Waterproof Ultrasonic Distance Sensor with UART communication  
SGP Sensirion Gas-sensors with I<sup>2</sup>C communication  
Sensirion SGP30  
Sensirion SGP40  
Sensirion SGP41  
SHT20: Temperature Humidity Sensor  
SHT21: Temperature Humidity Sensor  
SHT25: Temperature Humidity Sensor  
SHT30: Temperature Humidity Sensor  
SHT31: Temperature Humidity Sensor  
SHT35: Temperature Humidity Sensor  
SHT40: Temperature Humidity Sensor  
Sicam Q200: multifunctional device with power quality class A  
SPI: Serial Peripheral Interface  
SN74HC164D 8-bit Shift Register Module (CJMCU-164)  
SH1106 / SSH1106 / SSD1306 OLED Display with I<sup>2</sup>C communication  
STMicroelectronics VL53L0X  
STC8G IC: TM1650 7-Segment Display with Modbus Communication  
STM32F10: ARM STM32 Minimum System Development Module Board

## T

TCA9548A (HW617); Low-Voltage 8-Channel I<sup>2</sup>C Switch Module  
TGS-2611: Methane / Natural gas Sensor  
TM1637 7-segment display  
TM1650 7-Segment Display with Modbus Communication  
TOF050C: Time-of-Flight (ToF) Laser sensor  
TOF200C: Time-of-Flight (ToF) Laser sensor  
TOF400C: Time-of-Flight (ToF) Laser sensor  
TP8485E: TM1650 7-Segment Display with Modbus Communication  
TPU (Thermoplastic Polyurethane )  
TTL to RS485 Module  
TXS0108E (HW-0108) 8-channel, bidirectional 5V-3.3V logic level converter

## U

UART: universal asynchronous receiver-transmitter

## V

VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I<sup>2</sup>C communication  
STMicroelectronics VL53L0X  
STMicroelectronics VL53L1X  
VL6180X STMicroelectronics Time-of-Flight (ToF) sensor with I<sup>2</sup>C communication

## W

Waveshare TOF Laser Range Sensor with UART / I<sup>2</sup>C communication

## X

XTM35SC: current / voltage meter  
XY\_MOS: MOS FET Drive Module 400W Support PWM Controller

## Y

[YR-3180 Intelligent weighting sensor module](#)

## Z

## other

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