

# 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

FC-03 (LM393, HC-89) Infrared Speed Sensor Module  
FMCW Radar Module RD-xx  
FY-T734 Geya: Multi-channel optocoupled relay module

## G

G3MB-202P: Multi-channel Solid State Relay Module  
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>)  
GM12864: ST756x display drivers (ST7565, ST7567, GM12864, GM12864-59N, GM12864-03A, GM12864-01A, GME12864-41)  
GPS: Global Positioning System  
GRV GAS SENS V2 Gas  
GSR (Galvanic Skin Response): CJMCU-6701 Biosensor for measuring with SPI communication  
GXF0459: Vibration sensor  
GY-21: Temperature Humidity Modul  
GY-50: MPU-6500; 9-axis motion detection module  
GY-68 Modul: Temperature Air-press Modul  
GY-213V-HDC1080: HDC Texas Instruments Temperature/humidity sensors with I<sup>2</sup>C communication  
GY-219: INA219 digital current, voltage, and power monitor 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-906: MLX90614 infrared non-contact Thermometer  
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-89 (LM393, FC-03) Infrared Speed Sensor Module  
HC-SR04 Ultrasonic Sensor Module  
HC-SR501: PIR sensors  
HC-SR505: PIR sensors  
HDC 1080: Temperature Humidity Sensor  
HDC1080 Modul: Temperature Humidity Modul  
HFD4/3-S: Multi-channel optocoupled relay module  
HL-54: Multi-channel optocoupled relay module  
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](#)  
[HW097: TTL to RS485 Module](#)  
[HW108: TXS0108E 8-channel, bidirectional 5V-3.3V logic level converter](#)  
[HW123: MPU-6050 \(HW-123, GY-521\) 6-axis MotionTracking device](#)  
[HW316: Multi-channel optocoupled relay module](#)  
[HW484: \(LM393, KY-037, KY-038\) High-Sensitivity Sound Detection Module](#)  
[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

[J305: Geiger-Müller Tube](#)  
[J321: Geiger-Müller Tube](#)

## K

KNX  
[KY-019: Multi-channel optocoupled relay module](#)  
[KY-024: \(LM393\) Hall Sensor Module](#)  
[KY-026: \(LM393\) Flame Sensor \(IR\) Module](#)  
[KY-037, KY-038: \(LM393, HW-484\) High-Sensitivity Sound Detection Module](#)

## L

[Labview](#)

LDTM-028K: Vibration sensor  
LM393 (FC-03, HC-89) Infrared Speed Sensor Module  
LM393 (HW-484, KY-037, KY-038) High-Sensitivity Sound Detection Module  
LM393 (KY-024) Hall Sensor Module  
LM393 (KY-026) Flame Sensor (IR) Module  
LND-712: Geiger-Müller Tube  
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  
M4011: Geiger-Müller Tube  
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 (CJMCMCU-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  
MLX90614 (GY-906) infrared non-contact Thermometer  
Modbus  
MPU-6050 (HW-123, GY-521) 6-axis MotionTracking device  
MPU-6500: 9-axis motion detection module  
MPU-9250/6500: 9-axis motion detection module  
MQ-2: Gas Sensor smoke LPG (liquefied petroleum gas) propane hydrogen  
MQ-3: Gas Sensor alcohol (C<sub>2</sub>H<sub>5</sub>OH) Small sensitivity: Benzine gas  
MQ-4: Gas Sensor CH<sub>4</sub> gas Natural gas LNG  
MQ-5: Gas Sensor LPG Iso-butane Propane  
MQ-6: Gas Sensor Town gas Natural gas LPG LNG Iso-butane Propane  
MQ-7: Gas Sensor CO  
MQ-8: Gas Sensor H<sub>2</sub>  
MQ-9: Gas Sensor CO CH<sub>4</sub> gas LPG  
MQ-131: Gas Sensor ozone  
MQ-135: Gas Sensor NO<sub>x</sub> NH<sub>3</sub> alcohol Benzene smoke CO<sub>2</sub>  
MQ-137: Gas Sensor ammonia (NH<sub>3</sub>)  
MQTT: MQ Telemetry Transport  
Multi-channel optocoupled relay module  
Multi-channel Solid State Relay (SSR) Module

## N

NT18B07: 7 Kanal RS485 Temperatur Sensor with Modbus RTU

[NwkSKey \(LoRA network session key\)](#)

## O

[O2-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/module with I<sup>2</sup>C communication](#)

[PCF8575: 16-bit I/O expander chip/module with I<sup>2</sup>C communication](#)

[PCF857x: I/O expander chip/module with I<sup>2</sup>C communication](#)

[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](#)

[RadiationD: Geiger counter module and Tubes](#)

[RCWL-0516: Microwave radar sensor module](#)

[RD-xx - Ai-Thinker Radar Module with UART communication](#)

[Renesas X9C series; X9C102, X9C103, X9C104, X9C503 Digitales Potentiometer Board Moduls](#)

[RS-232](#)

[RS-422](#)

RS-485

RSTP: Rapid Spanning Tree Protocol

RTD (Resistance Temperature Detectors) - PT100 / PT1000 sensor

## S

SBM-20: Geiger-Müller Tube

SC16IS750 / SC16IS752: One or two serial (UART) ports from microcontroller via I<sup>2</sup>C or SPI communication

SCD40-D-R2: CO<sub>2</sub> / Air-quality / Temperature / Humidity Sensor

SEN0311: A0221AU / A02YYUW Waterproof Ultrasonic Distance Sensor with UART communication

Sension SCD CO<sub>2</sub> measurement module with I<sup>2</sup>C communication

SCD30: CO<sub>2</sub> measurement module with I<sup>2</sup>C communication

SCD40: CO<sub>2</sub> measurement module with I<sup>2</sup>C communication

SCD41: CO<sub>2</sub> measurement module with I<sup>2</sup>C communication

SD05CRMA: Compact Solar Charge Controller module

SGP Sensirion Gas-sensors with I<sup>2</sup>C communication

SGP30: Gas-sensor

SGP40: Gas-sensor

SGP41: Gas-sensor

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 (CJMCMU-164)

SH1106 / SSH1106 / SSD1306 OLED Display with I<sup>2</sup>C communication

SSR G3MB-202P: Multi-channel Solid State Relay Module

ST756x display drivers (ST7565 / ST7567)

ST7789 driver / TFT-LCD screen driver

STMicroelectronics VL53L0X

STC8G IC: TM1650 7-Segment Display with Modbus Communication

STM32F10: ARM STM32 Minimum System Development Module Board

STS-5: Geiger-Müller Tube

## 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

[Vibration sensors](#)  
[VL53Lnn STMicroelectronics time-of-flight \(ToF\) laser-ranging sensors with I<sup>2</sup>C communication](#)  
[VL53L0X](#)  
[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

[X9C series; X9C102, X9C103, X9C104, X9C503 Digitales Potentiometer Board Modul](#)  
[XGZP68xx: Silicon Pressure Sensors/Module](#)  
[XGZP6810D: Silicon Pressure Sensors/Module](#)  
[XGZP6857D: Silicon Pressure Sensors/Module](#)  
[XGZP6859D: Silicon Pressure Sensors/Module](#)  
[XGZP6887D: Silicon Pressure Sensors/Module](#)  
[XGZP6897D: Silicon Pressure Sensors/Module](#)  
[XGZP6899A: Silicon Pressure Sensors/Module](#)  
[XTM35SC: current / voltage meter](#)  
[XY\\_MOS: MOS FET Drive Module 400W Support PWM Controller](#)

## Y

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

## Z

## other

[abbreviation index](#), [abbreviation](#), [index](#)

This page has been accessed for: Today: 1, Until now: 104

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