

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 I²C communication

APDS-9900: Avago ALS and proximity detection sensors with I²C communication

APDS-9930: Avago ALS and proximity detection sensors with I²C communication

APDS-9960: Avago ALS and proximity detection sensors with I²C 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 I²C communication
CJMCU-680: Temperature/Humidity/Barometric Pressure/Gas (VOC) Module
CJMCU-750: SC16IS750 / SC16IS752: One or two serial (UART) ports from microcontroller via I²C or SPI communication
CJMCU-752: SC16IS750 / SC16IS752: One or two serial (UART) ports from microcontroller via I²C 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 I²C communication
CJMCU-2317: MCP23017 / MCP23S17 16-Bit I/O Expander with Serial Interface I²C / SPI
CJMCU-3216: AP-3216 integrated digital ambient light and proximity sensor module/IC with I²C 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 I²C 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 (C₂H₅OH) Hydrogen(H₂ Formaldehyde(CH₂O) Sensor

GM-702b: Carbon monoxide (CO) Hydrogen (H₂)

GPS: Global Positioning System

GRV GAS SENS V2 Gas

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

GXFM0459: 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 I²C communication

GY-219: INA219 digital current, voltage, and power monitor with I²C 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-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 I²C communication

HTU21 TE Connectivity temperature/humidity sensors with I²C 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

HW611: BMP280: Temperature Air-pressure Sensor

HW617: TCA9548A Low-Voltage 8-Channel I²C Switch Module

[HX711: 24-bit analog-to-digital converter \(ADC\)](#)

I

- [I²C](#)
- [CJMCU-219/INA-219 breakout board/IC with I²C communication](#)
- [INA219: digital current, voltage, and power monitor with I²C communication](#)
- [INA226: current/voltage/power monitor with I²C communication](#)
- [INA228: ultra-precise, high-resolution digital power, energy, and charge monitor with an I²C interface](#)
- [INA237: is an ultra-precise, 16-bit digital power monitor with I²C communication](#)
- [INA238: Ultra-precise digital power monitor 16-bit delta-sigma ADC with I²C communication](#)
- [INA260: high-precision digital power monitor with I²C communication](#)
- [INA3221: current and bus voltage monitor with 3 channels I²C communication](#)

J

K

[KNX](#)

L

- [Labview](#)
- [LDTM-028K: Vibration sensor](#)
- [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 I²C / SPI
MH-Z19 series of NDIR CO₂ 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
Winsen MQ-2: Gas Sensor smoke LPG (liquefied petroleum gas) propane hydrogen
Winsen MQ-3: Gas Sensor alcohol (C₂H₅OH) Small sensitivity: Benzine gas
Winsen MQ-4: Gas Sensor CH₄ 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 H₂
Winsen MQ-9: Gas Sensor CO CH₄ gas LPG
Winsen MQ-131: Gas Sensor ozone
Winsen MQ-135: Gas Sensor NO_x NH₃ alcohol Benzene smoke CO₂
Winsen MQ-137: Gas Sensor ammonia (NH₃)
MQTT: MQ Telemetry Transport

N

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

O

O₂-A2: Oxygen Sensor
OLED (SSH1106/SSD1306) Display with I²C communication
OCX: Operational Control System
OTAA (LoRa Over-The-Air Activation)

P

PAJ7620U2: Gesture recognition sensors/module with I²C 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-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

SC16IS750 / SC16IS752: One or two serial (UART) ports from microcontroller via I²C or SPI communication
SCD40-D-R2: CO₂ / Air-quality / Temperature / Humidity Sensor
SEN0311: A0221AU / A02YYUW Waterproof Ultrasonic Distance Sensor with UART communication
Sension SCD CO₂ measurement module with I²C communication
SCD30: CO₂ measurement module with I²C communication
SCD40: CO₂ measurement module with I²C communication
SCD41: CO₂ measurement module with I²C communication
SD05CRMA: Compact Solar Charge Controller module
SGP Sensirion Gas-sensors with I²C 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 (CJMCU-164)
SH1106 / SSH1106 / SSD1306 OLED Display with I²C 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 I²C 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 I²C communication
VL53L0X
VL53L1X
VL6180X STMicroelectronics Time-of-Flight (ToF) sensor with I²C communication

W

Waveshare TOF Laser Range Sensor with UART / I²C communication

X

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

[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: 218

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