

# Glossary

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Note: The glossary content is **automatically** used in all wiki pages.

## 1 A

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### **A2DP**

Advanced Audio Distribution Profile

### **ABI**

Application binary interface .

In computer software, an application binary interface (ABI) describes the low-level interface between a computer program and the operating system or another program.

### **ACL**

Automatic current limit (LCD power improvement solution)

### **ADB**

Android debug bridge (Android specific)

### **ADC**

Analog-to-digital converter. The process of converting a sampled analog signal to a digital code that represents the amplitude of the original signal sample.

### **AES**

Advanced Encryption Standard

### **AF**

GPIO alternate function

### **AHB**

Advanced High-performance Bus

### **aka**

also known as

### **ALSA**

Advanced Linux sound architecture

### **AOSP**

Android Open Source Project

**APB**

Advanced Peripheral Bus

**API**

Application programming interface

**Arm** ®

<https://www.arm.com/> (see <https://www.arm.com/company/policies/trademarks/arm-trademark-list/cortex-trademark> )

**ASoC**

ALSA System on Chip

**AVB**

Audio Video Bridging over Ethernet (set of IEEE standards for transporting audio and other real-time content over Ethernet)

**AVD**

Analog Voltage Detector

## 2 B

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**BSP**

Board support package

**BL1**

Boot Loader stage 1

**BL2**

Boot Loader stage 2

**BL32**

Boot Loader stage 3-2

**BL33**

Boot Loader stage 3-3

**BLE**

Bluetooth Low Energy .

Bluetooth Low Energy (Bluetooth LE, BLE, marketed as Bluetooth Smart) is a wireless personal area network technology designed and marketed by the Bluetooth Special Interest Group aimed at novel applications in the healthcare, fitness, beacons, security, and home entertainment industries. Compared to Classic Bluetooth, Bluetooth Smart is intended to provide considerably reduced power consumption and cost while maintaining a similar communication range. (source[https://en.wikipedia.org/wiki/Bluetooth\\_Low\\_Energy](https://en.wikipedia.org/wiki/Bluetooth_Low_Energy))

**BoardId**

eval

Generic term used only for Android, to complete configuration modules paths depending on used board

**BOR**

Brownout reset

**BSP**

Board Support Package

**BSEC**

Boot and Security and OTP control

**BT**

BlueTooth

## 3 C

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**CABC**

Content-Adaptative Backlight Control (LCD power improvement solution)

**CAB**

Content-Adaptative Backlight (LCD power improvement solution)

**CEC**

Consumer Electronics Control (HDMI standard)

**CLUT**

Colour Look-Up Table

**CMSIS**

Cortex Microcontroller Software Interface Standard

**configs**

Configuration File System (See <https://en.wikipedia.org/wiki/Configs> for more details)

**Cortex** ®

**CPL**

Common Public License

**CPU**

Central processing unit

**CRC**

Cyclic redundancy check calculation unit

**CRYP**

Cryptographic processor

**CSG**

Constructive Solid Geometry

**CSS**

Cascading Style Sheets (web standard)

**CTS**

Compatibility Test Suite (Android specific)

## 4 D

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**DAC**

Digital-to-analog converter

Electronic circuit that converts a binary number into a continuously varying value.

**DAI**

Digital Audio Interface

**DAPM**

Dynamic Audio Power Management

**DBI**

Display Bus Interface (MIPI® Alliance standard)

**DCMI**

Digital Camera Memory Interface

**DDB**

Device Descriptor Block (MIPI® Alliance standard)

**DDC**

Display Data Channel (VESA standard)

**DDR**

Doubledata rate (memory domain)

**debugfs**

Debug File System (See <https://en.wikipedia.org/wiki/Debugfs> for more details)

**devfs**

Device File System (See [https://en.wikipedia.org/wiki/Device\\_file#DEVFS](https://en.wikipedia.org/wiki/Device_file#DEVFS) for more details)

**DES**

Data Encryption Standard

**DFSDM**

Digital Filter for Sigma-Delta Modulator

**DFU**

Device Firmware Upgrade

**DISCO**

Discovery board

**DMA**

Direct Memory Access

**DMA2D**

Chrom-Art Accelerator™ controller (STM32 specific)

**DMIC**

Digital microphone

**DPI**

Display Pixel Interface (MIPI® Alliance standard)

**DRD**

Dual-Role Device

USB standard defines host and device roles. OTG controllers support both roles and can be called Dual-Role Devices controllers.

**DRI**

Direct Rendering Infrastructure (Linux framework for allowing direct access to graphics hardware... find more information on official DRI web site <http://dri.freedesktop.org/wiki/FrontPage>)

**DRM**

Direct Rendering Manager

(kernel module that gives direct hardware access to DRI clients, find more information on official DRI web site <http://dri.freedesktop.org/wiki/DRM>)

**DRP**

Dual Role Port, an USB port that can operate in host or device mode

**DSI**

Display Serial Interface (MIPI® Alliance standard)

**DT**

Device Tree

**DTB**

Device Tree Binary (or Blob)

**DTS**

Device Tree Source (in software context) or Digital Temperature Sensor (in peripheral context)

**DVI**

Digital Visual Interface (Digital Display Working Group)

## 5 E

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**EAL**

Evaluation Assurance Level

**ECC**

Error Correction Capability

**ECC**

Elliptic curve cryptography

**ECDSA**

Elliptic Curve Digital Signature Algorithm

**EDID**

Extended Display Identification Data (HDMI standard)

**EDP**

Embedded Display Port (VESA standard). See <http://www.displayport.org/> for more details

**EEPROM**

Electrically-erasable programmable read-only memory

**EGL**

Khronos Native Platform Graphics Interface (See <http://www.khronos.org/egl/> for more details)

**EHCI**

Enhanced Host Controller Interface

**EMI**

External memory interface

**eMMC**

former spelling for e•MMC ('e' in italic)

**e•MMC**

Embedded Multi-Media Card

**EOT**

End Of Transmission (MIPI<sup>®</sup> Alliance DSI standard)

**ETH**

Ethernet

**ETM**

Embedded Trace Macrocell

**ETZPC**

Extended TrustZone Protection Controller

**EVAL**

Evaluation board

## **EXTI**

External Interrupt

## 6 F

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### **FB**

Frame Buffer (could be the Kernel framebuffer linked to the display, a GPU framebuffer, an imaging framebuffer...)

### **FHS**

File Hierarchy Standard defines by Linux Fundation

### **Flash**

Flash memory shortened to gain space in titles, tables and block diagrams

### **Flash memory**

Flash memories combine high density and cost effectiveness of EPROMs with the electrical erasability of EEPROMs.

For this reason, the Flash memory market is one of the most exciting areas of the semiconductor industry today and new applications requiring in system reprogramming, such as cellular telephones, automotive engine management systems, hard disk drives, PC BIOS software for Plug & Play, digital TV, set top boxes, fax and other modems, PC cards and multimedia CD-ROMs, offer the prospect of very high volume demand.

### **foo\_driver**

foo\_driver could be any driver that needs to control a GPIO

### **FPS**

Frames per second

### **FSBL**

First Stage Boot Loader

### **FTR**

First Time Right

## 7 G

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### **GDB**

GNU dedugger, a portable debugger that runs on many Unix-like systems

### **GIC**

Generic Interrupt Controller

### **GP**

Geometry Processor, used to execute Vertex Shaders (3D IP/IC specific).

### **GPIO**

General-Purpose Input/Output

A realization of open ended transmission between devices on an embedded level. These pins available on a processor can be programmed to be used to either accept input or provide output to external devices depending on user desires and applications requirements.

### **GPGPU**

General-Purpose computation on Graphics Processing Units

### **GPT**

GUID Partition Table

**GPU**

Graphics Processing Units

**GRALLOC**

GRaphic ALLOCation HAL or library (Android specific)

**GUI**

Graphical User Interface

## 8 H

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**HAL**

Hardware Abstraction Layer

**HDCP**

High-Bandwidth Digital Content Protection (HDMI standard)

**HDMI**

High-Definition Multimedia Interface (HDMI standard)

**HDP**

Hardware Debug Port

**HDR**

High Dynamic Range (HDMI standard)

**HID**

Human Interface Device (for USB, Bluetooth...)

**HMAC**

Hash-based Message Authentication Code

**HPD**

Hot Plug Detect

**HS**

High Speed (MIPI<sup>®</sup> Alliance DSI standard)

**HSEM**

Hardware Semaphore

**HSI**

High Speed Internal oscillator (STM32 clock source) or High Speed Synchronous Serial Interface (MIPI<sup>®</sup> Alliance standard)

**HSLV**

High Speed Low Voltage pin mode

## 9 I

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**I2C**

Inter-Integrated Circuit

Bi-directional 2-wire bus standard for efficient inter-IC control.

**I2S**

Integrated Interchip Sound

I2S (without the 2 in superscript) refers to the STMicroelectronics integrated interchip sound IP.

**I420**

fourcc of YUV420 planar pixel format

**IDE**

(Software)Integrated development/design/debugging environment

**IFP**

Image Formatting Pipeline

**IIC**

Inter-Integrated Circuit

Bi-directional 2-wire bus standard for efficient inter-IC control.

**IIO**

Industrial I/O Linux subsystem

**IO**

input/output

**IPC**

Inter-Processor Communication

**IPCC**

Inter-Processor Communication Controller

**IPP**

Image Preprocessor Pipeline

**ITM**

Instruction Trace Macrocell

**IWDG**

Independent Watchdog

## 10 J

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**JIT**

Just-In-Time (Way of working for a given Virtual Machine)

## 11 K

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**KMS**

Kernel Mode Setting

## 12 L

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**LDISC**

Line Discipline

**LED**

Light-emitting diode

**LIN**

Local Interconnect Network

**LDO**

Low-dropout regulator

**LL**

Low layer of STM32Cube

**LP**

Low Power (MIPI<sup>®</sup> Alliance DSI standard)

**LTDC**

LCD TFT Display Controller (STM32 specific)

**LPTIM**

low-power timer (STM32 specific)

## 13 M

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**MCU Microcontroller Unit**

MCUs have internal flash memory and are intended to operate with a minimum amount of external support ICs. They commonly are a self-contained, system-on-chip (SoC) designs.

**MD5**

Message Digest 5

**MFD**

Multifunction device

**microSD<sup>™</sup>;**

eg microSD card ('m' in lowercase whatever its position)

**Micro-AB**

Micro-AB connector/port ('M' in uppercase whatever its position)

**Micro-USB**

eg Micro-USB connector ('M' in uppercase whatever its position)

**MIPI**

Mobile Industry Processor Interface, open membership organization that includes leading companies in the mobile industry that share the objective of defining and promoting open specifications for interfaces inside mobile terminals, see MIPI<sup>®</sup> Alliance standard web site <https://www.mipi.org>

**MMC**

MultimediaCard

**MMU**

Memory Management Unit

A hardware device or circuit that supports virtual memory and paging by translating virtual addresses into physical addresses.

**MPU**

Microprocessor Unit

**MTD**

Memory Technology Device

## 14 N

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### **NA**

Non Applicable

### **NDA**

Non-disclosure agreement

### **NV12**

fourcc of YUV420 semi-planar pixel format

### **NVIC**

Nested Vectored Interrupt Controller

### **NVM**

Non Volatile Memory, like a flash memory

## 15 O

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### **OGL**

Open Graphics Library (See <http://www.opengl.org/> for more details)

### **OHCI**

Open Host Controller Interface

### **ONFI**

Open NAND Flash interface

The ONFI working group, acronym for Open NAND Flash Interface, was founded in 2005. The group's mission consists in creating a common industry standard for NAND Flash interfaces, to simplify integration of NAND Flash memory into consumer electronics (CE) devices and computing platforms. ST is one of the co-founder companies together with Hynix, Intel, Micron, Phison and Sony.

### **OpenCL**

Open Computing Language (See <http://www.opencl.org/> for more details)

### **OpenGL**

Open Graphics Library (See <http://www.opengl.org/> for more details)

### **OpenGLES**

Open Graphics Library for Embedded System (See <http://www.khronos.org/opengles/> for more details)

### **OpenVG**

Open Vector Graphics (See <http://www.khronos.org/openvg/> for more details)

### **OPP**

Operating Performance Point (link to voltage and frequency scalings)

### **OP-TEE**

Open Portable Trusted Execution Environment

### **OS**

Operating System

### **OSS**

Open Source Software

### **OST**

Open System Trace

### **OTG**

USB On-The-Go

Capability/type of USB port, acting primarily as USB device, to also act as USB host. Also known as USB OTG.

**OTP**

One Time Programmed

## 16 P

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**PCB**

Printed Circuit Board

**PLB**

Polygon List Builder (3D IP/IC specific)

**PMIC**

Power Management Integrated Circuit

**PMU**

Power Management Unit (in STPMIC context) or Performance Monitoring Unit (in Arm Cortex-A context)

**POSIX**

Portable Operating System Interface based on uniX ([https://en.wikipedia.org/wiki/POSIX\\_terminal\\_interface](https://en.wikipedia.org/wiki/POSIX_terminal_interface) for more details)

**POT**

Power Of Two (could be linked to Graphics, like in OpenGL textures)

**PP**

Pixel Processor, used to execute Fragment Shaders (3D IP/IC specific)

**procfs**

Process File System (See <https://en.wikipedia.org/wiki/Procfs> for more details)

**PSCI**

Power State Coordination Interface

**PVD**

Programmable Voltage Detector

**PWM**

Pulse Width Modulation

## 17 Q

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## 18 R

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**RAM**

Random Access Memory

Early computer memories generally had serial access. Memories where any given address can be accessed when desired were then called "random access" to distinguish them from the memories where contents can only be accessed in a fixed order. The term is used today for volatile random-access semiconductor memories.

**RCC**

Reset and Clock Control

**REGMAP**

Register map (Linux registers map abstraction API)

**RMA**

Return Materials Authorization

**RNG**

Random Number Generator

**ro**

Read Only

**ROM**

Read Only Memory

**RTC**

Real Time Clock

**RTOS**

Real Time Operating System

**RX**

Receive

## 19 S

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**SAI**

Serial Audio Interface

Mechanism used to transfer non-buffered audio data between processors and/or audio converters.

**SCL**

Serial clock line

**SD**

Secure digital

**SDA**

Serial DATA line

**SDIO**

Secure digital input/output

**SDIO card**

SDIO is an SD-size card with extended input/output functions

**SDK**

Software development kit

A programming package that enables a programmer to develop applications for a specific platform.

**Serdev**

Serial device bus

**SHA**

Secure Hash Algorithm

**SLC**

Single-Level Cell is a kind of NAND flash

**SMC**

Secure Monitor Call

**SMBus**

System Management Bus

**SMP**

symetric multiprocessing

**SocId**

stm32mp1, sti

Generic term used only for Android, to complete configuration modules paths depending on used STM32 microprocessor devices

**SOM**

System-On-Module

**SOT**

Start Of Transmission (MIPI<sup>®</sup> Alliance DSI standard)

**S/PDIF**

Sony/Philips Digital Interface Format

Protocol (IEC-60958)

**SP\_min**

Secure Payload minimal

**SPI**

Serial Peripheral Interface

**SPL**

Secondary Program Loader, *Also known as **U-Boot SPL***

**SSBL**

Second Stage Boot Loader

**STGEN**

System Time Generator

**STM**

System Trace Module

**STP**

System Trace Protocol (MIPI<sup>®</sup> Alliance standard specifying the protocol to carry above system traces)

**SSP**

Secure Secret Provisioning

**SYSCFG**

System Configuration

**sysfs**

System File System (See <https://en.wikipedia.org/wiki/Sysfs> for more details)

**SYSTICK**

System Tick

**SWD**

Serial Wire Debug

## 20 T

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**TA**

Trusted Application

**TAF**

Trusted Application Function

**TAMP**

Tamper

**TBG**

Test Byte Generator, part of DSI, used to generate - on CPU demand - a stream of byte to the DSI D-PHY.  
The goal is to perform basic DSI D-PHY lane check

**TCG**

Trusted Computing Group

**TCM**

Tightly Coupled Memory

**TDES**

Triple Data Encryption Standard

**TEE**

Trusted Execution Environment

**termios**

terminal input output structure

**TF-A**

Trusted Firmware for Arm Cortex-A

**TFTP**

Trivial File Transfer Protocol

**TPM**

Trusted Platform Module

**TrEQ**

Transducer Equalizer

**TSS**

TPM Software Stack

**TTY**

TeleTYpewriter

**TVG**

Test Video Generator, part of DSI, used to generate a video stream automatically (for verification and validation task)

**TX**

Transmit

**TZ**

Trust Zone

**TZC**

TrustZone address space Controller for DDR

## 21 U

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**UART**

Universal Asynchronous Receiver/Transmitter

**UDC**

USB Device Controller

**UI**

User Interface

**UMS**

User-space Mode Setting

**µClinux**

The letters "µC" are for "microcontroller", the name is pronounced "you-see-Linux" (<http://www.uclinux.org/>)

**UP**

uniprocessor

**USART**

Universal Synchronous/Asynchronous Receiver/Transmitter

**USBH**

USB Host (STM32 specific)

**USB Type-A**

USB port or connector

**USB Type-C**

USB port or connector

**UTMI**

USB 2.0 Transceiver Macrocell Interface

**USB On-The-Go**

Capability/type of USB port, acting primarily as USB device, to also act as USB host. Also known as USB OTG.

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## 22 V

**VESA**

Video Electronics Standards Association

**V4L2**

Video 4 Linux version 2

**VREFBUF**

voltage reference buffer (STM32 specific)

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## 23 W

**Wi-Fi**

technology for wireless local area networking with devices based on the IEEE 802.11 standards

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## 24 X

**XIP**

Execute In Place. Method of executing programs directly from long term storage rather than copying it into RAM (linked to NOR Flash).

**XTI**

Protocol specifying a way to define OST frame boundary and to support trace activation using uart channel.

## 25 Y

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### **YAVTA**

Yet Another V4L2 Test Application (V4L2 standard)

## 26 Z

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## 27 0-9

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## 28 See Also

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Advanced Audio Distribution Profile

Application binary interface .

Automatic current limit (LCD power improvement solution)

Android debug bridge (Android specific)

Analog-to-digital converter. The process of converting a sampled analog signal to a digital code that represents the amplitude of the original signal sample.

Advanced Encryption Standard

GPIO alternate function

General-Purpose Input/Output

Advanced High-performance Bus

also known as

Advanced Linux sound architecture

Android Open Source Project

Advanced Peripheral Bus

Application programming interface

ALSA System on Chip

Audio Video Bridging over Ethernet (set of IEEE standards for transporting audio and other real-time content over Ethernet)

Analog Voltage Detector

Board Support Package

Board support package

Boot Loader stage 1

Boot Loader stage 2

Boot Loader stage 3-2

Boot Loader stage 3-3

Bluetooth Low Energy .

eval

Brownout reset

Boot and Security and OTP control

One Time Programmed

BlueTooth

Content-Adaptative Backlight Control (LCD power improvement solution)

Content-Adaptative Backlight (LCD power improvement solution)

Consumer Electronics Control (HDMI standard)

High-Definition Multimedia Interface (HDMI standard)

Colour Look-Up Table

Cortex Microcontroller Software Interface Standard

Configuration File System (See <https://en.wikipedia.org/wiki/Configfs> for more details)

Common Public License

Central processing unit

Cyclic redundancy check calculation unit

Cryptographic processor

Constructive Solid Geometry

Cascading Style Sheets (web standard)

Compatibility Test Suite (Android specific)

Digital-to-analog converter

Digital Audio Interface

Dynamic Audio Power Management

Display Bus Interface (MIPI<sup>®</sup> Alliance standard)

Mobile Industry Processor Interface, open membership organization that includes leading companies in the mobile industry that share the objective of defining and promoting open specifications for interfaces inside mobile terminals, see MIPI<sup>®</sup> Alliance standard web site <https://www.mipi.org>

Digital Camera Memory Interface

Device Descriptor Block (MIPI<sup>®</sup> Alliance standard)

Display Data Channel (VESA standard)

Video Electronics Standards Association

Doubledata rate (memory domain)

Debug File System (See <https://en.wikipedia.org/wiki/Debugfs> for more details)

Device File System (See [https://en.wikipedia.org/wiki/Device\\_file#DEVFS](https://en.wikipedia.org/wiki/Device_file#DEVFS) for more details)

Data Encryption Standard

Digital Filter for Sigma-Delta Modulator

Device Firmware Upgrade

Discovery board

Direct Memory Access

Chrom-Art Accelerator™ controller (STM32 specific)

Digital microphone

Display Pixel Interface (MIPI<sup>®</sup> Alliance standard)

Dual-Role Device

USB On-The-Go

Direct Rendering Infrastructure (Linux framework for allowing direct access to graphics hardware... find more information on official DRI web site <http://dri.freedesktop.org/wiki/FrontPage>)

Direct Rendering Manager

Dual Role Port, an USB port that can operate in host or device mode

Display Serial Interface (MIPI<sup>®</sup> Alliance standard)

Device Tree

Device Tree Binary (or Blob)

Device Tree Source (in software context) or Digital Temperature Sensor (in peripheral context)

Digital Visual Interface (Digital Display Working Group)

Evaluation Assurance Level

Elliptic curve cryptography

Error Correction Capability

Elliptic Curve Digital Signature Algorithm

Extended Display Identification Data (HDMI standard)

Embedded Display Port (VESA standard). See <http://www.displayport.org/> for more details

Electrically-erasable programmable read-only memory

Khronos Native Platform Graphics Interface (See <http://www.khronos.org/egl/> for more details)

Enhanced Host Controller Interface

External memory interface

former spelling for e•MMC ('e' in italic)

MultimediaCard

End Of Transmission (MIPI<sup>®</sup> Alliance DSI standard)

Ethernet

Embedded Trace Macrocell

Extended TrustZone Protection Controller

Evaluation board

External Interrupt

Frame Buffer (could be the Kernel framebuffer linked to the display, a GPU framebuffer, an imaging framebuffer...)

Graphics Processing Units

File Hierarchy Standard defines by Linux Foundation

Flash memory shortened to gain space in titles, tables and block diagrams

Flash memories combine high density and cost effectiveness of EPROMs with the electrical erasability of EEPROMs.

foo\_driver could be any driver that needs to control a GPIO

Frames per second

First Stage Boot Loader

First Time Right

GNU dedugger, a portable debugger that runs on many Unix-like systems

Generic Interrupt Controller

Geometry Processor, used to execute Vertex Shaders (3D IP/IC specific).

General-Purpose computation on Graphics Processing Units

GUID Partition Table

GRaphic ALLOCation HAL or library (Android specific)

Hardware Abstraction Layer

Graphical User Interface

High-Bandwidth Digital Content Protection (HDMI standard)

Hardware Debug Port

High Dynamic Range (HDMI standard)

Human Interface Device (for USB, Bluetooth...)

Hash-based Message Authentication Code

Hot Plug Detect

High Speed (MIPI<sup>®</sup> Alliance DSI standard)

Hardware Semaphore

High Speed Internal oscillator (STM32 clock source) or High Speed Synchronous Serial Interface (MIPI<sup>®</sup> Alliance standard)

High Speed Low Voltage pin mode

Inter-Integrated Circuit

Integrated Interchip Sound

fourcc of YUV420 planar pixel format

(Software)Integrated development/design/debugging environment

Image Formatting Pipeline

Inter-Integrated Circuit

Industrial I/O Linux subsystem

input/output

Inter-Processor Communication

Inter-Processor Communication Controller

Image Preprocessor Pipeline

Instruction Trace Macrocell

Independent Watchdog

Just-In-Time (Way of working for a given Virtual Machine)

Kernel Mode Setting

Line Discipline

Light-emitting diode

Local Interconnect Network

Low-dropout regulator

Low layer of STM32Cube

Low Power (MIPI<sup>®</sup> Alliance DSI standard)

LCD TFT Display Controller (STM32 specific)

low-power timer (STM32 specific)

Message Digest 5

Message Digest 5

Multifunction device

Micro-AB connector/port ('M' in uppercase whatever its position)

eg Micro-USB connector ('M' in uppercase whatever its position)

Memory Management Unit

Microprocessor Unit

Memory Technology Device

Non Applicable

Non-disclosure agreement

fourcc of YUV420 semi-planar pixel format

Nested Vectored Interrupt Controller

Non Volatile Memory, like a flash memory

Open Graphics Library (See <http://www.opengl.org/> for more details)

Open Host Controller Interface

Open NAND Flash interface

Open Computing Language (See <http://www.opencl.org/> for more details)

Open Graphics Library (See <http://www.opengl.org/> for more details)

Open Graphics Library for Embedded System (See <http://www.khronos.org/opengles/> for more details)

Open Vector Graphics (See <http://www.khronos.org/opencv/> for more details)

Operating Performance Point (link to voltage and frequency scalings)

Open Portable Trusted Execution Environment

Operating System

Open Source Software

Open System Trace

Capability/type of USB port, acting primarily as USB device, to also act as USB host. Also known as USB OTG.

Printed Circuit Board

Polygon List Builder (3D IP/IC specific)

Power Management Integrated Circuit

Power Management Unit (in STPMIC context) or Performance Monitoring Unit (in Arm Cortex-A context)

Portable Operating System Interface based on uniX ([https://en.wikipedia.org/wiki/POSIX\\_terminal\\_interface](https://en.wikipedia.org/wiki/POSIX_terminal_interface) for more details)

Power Of Two (could be linked to Graphics, like in OpenGL textures)

Pixel Processor, used to execute Fragment Shaders (3D IP/IC specific)

Process File System (See <https://en.wikipedia.org/wiki/Procfs> for more details)

Power State Coordination Interface

Programmable Voltage Detector

Pulse Width Modulation

Random Access Memory

Reset and Clock Control

Register map (Linux registers map abstraction API)

Return Materials Authorization

Random Number Generator

Read Only

Read Only Memory

Real Time Clock

Real Time Operating System

Receive

Serial Audio Interface

Serial clock line

Secure digital

Serial DATA line

Secure digital input/output

SDIO is an SD-size card with extended input/output functions

Software development kit

Serial device bus

Secure Hash Algorithm

Single-Level Cell is a kind of NAND flash

Secure Monitor Call

System Management Bus

symetric multiprocessing

stm32mp1, sti

System-On-Module

Start Of Transmission (MIPI<sup>®</sup> Alliance DSI standard)

Sony/Philips Digital Interface Format

Secure Payload minimal

Serial Peripheral Interface

Secondary Program Loader, *Also known as **U-Boot SPL***

Second Stage Boot Loader

System Time Generator

System Trace Module

System Trace Protocol (MIPI<sup>®</sup> Alliance standard specifying the protocol to carry above system traces)

Secure Secret Provisioning

System Configuration

System File System (See <https://en.wikipedia.org/wiki/Sysfs> for more details)

System Tick

Serial Wire Debug

Trusted Application

Trusted Application Function

Tamper

Test Byte Generator, part of DSI, used to generate - on CPU demand - a stream of byte to the DSI D-PHY.  
The goal is to perform basic DSI D-PHY lane check

Trusted Computing Group

Tightly Coupled Memory

Triple Data Encryption Standard

Trusted Execution Environment

terminal input output structure

Trusted Firmware for Arm Cortex-A

Trivial File Transfer Protocol

Trusted Platform Module

Transducer Equalizer

TPM Software Stack

TeleTYpewriter

Test Video Generator, part of DSI, used to generate a video stream automatically (for verification and validation task)

Transmit

Trust Zone

TrustZone address space Controller for DDR

Universal Asynchronous Receiver/Transmitter

USB Device Controller

User Interface

User-space Mode Setting

The letters "µC" are for "microcontroller", the name is pronounced "you-see-Linux" (<http://www.uclinux.org/>)

uniprocessor

Universal Synchronous/Asynchronous Receiver/Transmitter

USB Host (STM32 specific)

USB port or connector

USB port or connector

USB 2.0 Transceiver Macrocell Interface

Video 4 Linux version 2

voltage reference buffer (STM32 specific)

technology for wireless local area networking with devices based on the IEEE 802.11 standards

Execute In Place. Method of executing programs directly from long term storage rather than copying it into RAM (linked to NOR Flash).

Protocol specifying a way to define OST frame boundary and to support trace activation using uart channel.

Yet Another V4L2 Test Application (V4L2 standard)