



111-56-URM-014

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TrueOrder™ KDS

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## Platform Requirements

### About this Specification

This specification lists minimum hardware and software requirements for TrueOrder KDS. It serves as a reference for third party hardware manufacturers to confirm suitability of their platforms for the TrueOrder KDS application set.

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# 1. TrueOrder KDS Platform Requirements

## 1.1. Hardware

TrueOrder KDS is designed to operate on 64-bit architectures. Table 1.1.1 lists its hardware platform requirements.

**Table 1.1.1: Minimum Hardware Requirements for TrueOrder KDS**

Criteria	Minimum Requirements	Notes
CPU	64-bit ARM equivalent to Cortex-A55	Better spec. like Cortex-A73
Flash Storage	16 GB	
RAM	4 GB	
Display Out	HDMI 1080p preferred (VGA at 1080p acceptable)	Optional if platform is an AIO touchscreen.
Graphics	Dedicated GPU is preferred with Linux driver support	Equivalent to new gen. Mali-G52
Audio	(Optional) 3.5 mm audio jack	Audio output for external speakers
USB 2.0 Type A	(Optional) 2 ports	For bumpbars, TM-L100 label printer, touchscreen support, USB speakers
USB 3.0 Type C	1 port	For device (flash) programming and recovery
Network	Ethernet connector	Minimum cat5e/100Mbps support
RTC	1 month backup battery retention	

## 1.2. Operating System and Support Packages

TrueOrder KDS ships as part of a complete Linux OS image. The preferred Linux OS is equivalent in kernel and package versions to a Minimal Ubuntu 20.04 distribution. Consult Table 1.2.1 for details, including main opensource dependencies.

**Table 1.2.1: Software Requirements for TrueOrder KDS**

Criteria	Requirements	Notes
Linux Kernel	5.04 or newer	GPL v2.0
JRE	openjdk-11	GPL v2.0
Python	3.7 or newer	Python License v2.0, compliant with GPL v2.0
USB handling	libusb-1.0-0	LGPL v2.1+
XML handling	libxml2	MIT
cURL	libcurl4	cURL License, compliant with MIT
Nodejs	10.19.x	Node License, compliant with MIT
Sound handling	libasound2	LGPL v2.1+
Time handling	[ntp, ntpdate], [timedatectl]	[MIT], [LGPL v2.1+]
Database handling	sqlite3	GPL-v2.0
Webserver	Apache/2.4.4x	Apache License v2.0
Network handling	ifplugd	GPL v2.0
Package handling	apt	GPL v2.0

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### 1.3. Device Programming and Recovery Tools

Epson requires software tools and instructions to:

- i. Load vendor-provided OS images to the vendor device.
- ii. Extract custom OS images from the vendor device once TrueOrder KDS is successfully ported to it; this OS image should be usable at vendor factory for mass-production.

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