



Thermal Printer Family C-56

Linux-Driver
S684019-R3-V1.04-FINAL-
2020FEB12

Release Note

E

© 2009-2020 by **HENGSTLER**

Hengstler GmbH has created the text and diagrams contained in this document with care. However, we cannot accept responsibility for any errors or omissions. Notification regarding any errors and suggestions for improvement are welcome. We reserve the right to make technical and other changes at any time in the interest of continual product development. All information contained in this manual is given without regard to any possible patent protection. All rights reserved. Reproduction, translation and/or distribution of this document, or extracts thereof, are permitted only by express authorization from Hengstler GmbH. The Hengstler name and the Hengstler logo are registered trademarks of Hengstler GmbH and the Danaher Corporation. Other brand and product names are trademarks or registered trademarks of their respective companies.

HENGSTLER GmbH

Uhlandstr. 49

78554 Aldingen / Germany

Tel. +49 (0) 7424-89 0

Fax +49 (0) 7424-89 500

eMail: info@hengstler.com

www.hengstler.com

Document History

Revision	Mod. Nr	Status	Description
1	4 140308 TKA1	Closed	Initial version: created for C-56 Linux-Driver S684019 / R1-V1.00 - 14 March 2008
2	4 300908 TKA1	Closed	Created for C56 Linux-Driver S684019 / R2-V1.01 -30 SEP 2008
3	4 110509 TKA1	Closed	Created for C56 Linux-Driver S684019 / R2-V1.01b-BETA –11 MAY 2009
4	4 150709 LT2	Closed	Created for C56 Linux-Driver S684019 / R2-V1.01-FINAL–15 JUL 2009
5	4 091211 LT2	Closed	Created for C56 Linux-Driver S684019 / R3-V1.02d-BETA–09 DEC 2011
6	4 101115 LT2	Closed	Created for C56 Linux-Driver S684019 / R3-V1.03a-BETA–10 NOV 2015
7	4 200120 LT	Closed	Created for C56 Linux-Driver S684019 / R3-V1.03a-BETA–20 JAN 2020
8	4 120220 LT	Closed	Created for C56 Linux-Driver S684019 / R3-V1.04-FINAL–12 FEB 2020

Applicable Documentation and Software

Id	Part Nr	Description
[1]	D 684 017	Thermal Printer Family C-56 - Emulation Command Set Reference Manual - Types: USB / RS232
[2]	S 684 019	Linux-Driver for Thermal Printer Family C-56
[3]	S 684 141	Linux-Driver Manual for Thermal Printer Family C-56

Comments

Revision	Comments
-	-

Contents

1	Introduction.....	5
2	C-56 LINUX-DRIVER S684019-R1-V1.00-2008MAR14.....	6
3	C-56 LINUX-DRIVER S684019-R2-V1.01-2008SEP30.....	9
4	C-56 LINUX-DRIVER S684019-R2-V1.01b-BETA 2009MAY11	12
5	C-56 LINUX-DRIVER S684019-R2-V1.01-FINAL 2009JUL15	15
6	C-56 LINUX-DRIVER S684019-R3-V1.02d-BETA 2011DEC09	18
7	C-56 LINUX-DRIVER S684019-R3-V1.02f-BETA 2015NOV10	22
8	C-56 LINUX-DRIVER S684019-R3-V1.03a-BETA 2020JAN20	25
9	C-56 LINUX-DRIVER S684019-R3-V1.04-FINAL 2020FEB12	29

1 Introduction

This release note describes all known issues relative to the C-56 Linux printer driver with HENGSTLER part number S684019, first being released as R1-V1.00 on 14 March 2008. Later versions of this release note will describe all changes to this driver from the original release.

Linux printer driver S684019-R1-V1.00-2008MAR14 is regarded to be backward compatible to earlier pre-released and/or beta versions and replaces them all.

Linux printer driver S684019-R1-V1.00-2008MAR14 is tested to be operational only with C-56 printers which have USB interfaces and firmware version S684007-R7-V3.00.1 installed.

Linux printer driver S684019-R2-V1.01b-BETA-2009MAY11 is regarded to be backward compatible to earlier pre-released and/or beta versions and replaces them all.

Linux printer driver S684019-R3-V1.02f-BETA-2015NOV10 is regarded to be backward compatible to earlier pre-released and/or beta versions and replaces them all.

The latest Linux printer driver is **S684019-R3-V1.04-FINAL-2020FEB12** and is backward compatible to earlier pre-released versions with C-56 printers.

2 C-56 LINUX-DRIVER S684019-R1-V1.00-2008MAR14

Description

The C-56 printer driver S684019-R1-V1.00- 2008MAR14 is developed for Linux and is currently operational with available C-56 type printers (USB only) that have firmware S684007-R6-V3.00.1 installed.

List of modifications

=> R1-V1.00 – 2008 MAR 14 – RELEASED FINAL VERSION

Initial version of the C-56 printer driver for Linux. There is no modification history for earlier beta or pre-release versions of this printer driver.

Component	Version	Description
-	-	-

Package overview

```
| D-684-125-C56-LinuxDriver-ReleaseNote.pdf
| C56-LinuxDriver-S684019-R1-V1_00-FINAL-2008MAR14.zip
| C56-LinuxDriver-S684019-R1-V1_00-FINAL-2008MAR14.sources
|
+---Driver
| | hengstlerc56.ppd
| | hengstlerc56.ppd.gz
| | rastertoc56
| | README.TXT
| | install
| | uninstall
|
```

List of files/components

Date	Time	Size	File	Version	Description
N/A	N/A	N/A	C56-LinuxDriver-S684019-R1-V1_00-FINAL-2008MAR14.sources	R1-V1.00	Complete driver + sources package as zip file
N/A	N/A	N/A	C56-LinuxDriver-S684019-R1-V1_00-FINAL-2008MAR14.zip	R1-V1.00	Complete driver package as zip file
N/A	N/A	N/A	D-684-125-C56-LinuxpDriver-ReleaseNote.pdf	R1-V1.00	Release note of the driver package
08.03.2008	N/A	N/A	hengstlerc56.ppd	R1-V1.00	Driver component => information file required for installation of the C-56 driver
08.03.2008	N/A	N/A	hengstlerc56.ppd.gz	R1-V1.00	Driver component => information archive file required for installation of the C-56 driver
08.03.2008	N/A	N/A	rastertoc56	R1-V1.00	Driver component => C-56 Linux raster driver file
08.03.2008	N/A	N/A	README.TXT	R1-V1.00	Driver component => description of all files
08.03.2008	N/A	N/A	install	R1-V1.00	Driver component => install script for C-56 driver installation
08.03.2008	N/A	N/A	uninstall	R1-V1.00	Driver component => uninstall script for C-56 driver removal

Installation

Installation of the C-56 printer driver for usage with USB-type printers is started by running the "install" script in the driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the C-56 printer driver for usage with C-56 USB-type printers is started by connecting the printer.

The C-56 printer driver information file is "hengstlerc56.ppd" for the C-56 type printer.

The C-56 printer driver README.TXT contains more detailed information on C-56 printer driver installation.

Removal

The "uninstall" script is to be used for the uninstallation of the installed C-56 printer driver files.

Uninstallation of installed C-56 printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

List of anomalies and bugs

Currently no anomalies or bugs are known.

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Documentation

At this time there is no C-56 Linux printer driver manual available.

The C-56 emulation command set manual is available as Hengstler document D-684-017 [1].

Notes

-

3 C-56 LINUX-DRIVER S684019-R2-V1.01-2008SEP30

Description

The C-56 printer driver S684019-R2-V1.01- 2008SEP30 is developed for Linux and is currently operational with all C-56 type printers (USB only) that have firmware S684014 installed.

List of modifications

=> R2-V1.01 – 2008 SEP 30 – RELEASED FINAL VERSION

2nd released version of the C56 printer driver for Linux.

Mod-Id	Component	Version	Description
M-R2-001-TKA	HengstlerC56.drv	R2-V1.01	Disable* option added to „Print Speed“ settings
M-R2-002-TKA	HengstlerC56.drv	R2-V1.01	Disable* option added to „Print Density“ settings
M-R2-003-TKA	HengstlerC56.drv	R2-V1.01	Disable* option added to „Black Mark Size“ settings
M-R2-004-TKA	hengstlertoc56.c	R2-V1.01	Disable* in „Print Density“ settings was implemented
M-R2-005-TKA	hengstlertoc56.c	R2-V1.01	Disable* in „Print Speed“ settings was implemented
M-R2-006-TKA	hengstlertoc56.c	R2-V1.01	Disable* in „Black Mark Size“ settings was implemented
N/A	All files	R2-V1.01	Changed the version information of all files to R2 / 2008SEP30

* Disable option will not send any command data to printer, only raw data are send

Package overview

```
| C56-LinuxDriver-S684019-R2-V1_01-FINAL-2008SEP30.zip
| README.TXT
| install
| uninstall
|
+---Driver
| | hengstlerc56.ppd
| | hengstlerc56.ppd.gz
| | rastertoc56
|
+---Api
| | C56_Tb.h
| | C56_System.h
| | C56_Api.h
| | libC56Api.so.1.1
|
+---Documents
| | D-684-125-C56-LinuxDriver-ReleaseNote.pdf
| | D-684-141-C56-LinuxDriver-Manual.pdf
|
+---Tools
| | C56_PrintTerminal
|
```

List of files/components					
Date	Time	Size	File	Version	Description
N/A	N/A	N/A	C56-LinuxDriver-S684019-R2-V1_01-FINAL-2008SEP30.zip	R2-V1.01	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R2-V1.01	Short description of driver package
N/A	N/A	N/A	install	R2-V1.01	Installation script for Linux
N/A	N/A	N/A	uninstall	R2-V1.01	Un-installation script for Linux
N/A	N/A	N/A	D-684-125-C56-LinuxDriver-ReleaseNote.pdf	R2-V1.01	Release note of the driver package
N/A	N/A	N/A	D-684-141-C56-LinuxDriver-Manual.pdf	R2-V1.01	Linux driver manual
N/A	N/A	N/A	C56_Tb.h	R2-V1.01	Include file specifying C56 Tool Box with various functionality
N/A	N/A	N/A	C56_System.h	R2-V1.01	Include file specifying the overall C56 definition
N/A	N/A	N/A	C56_Api.h	R2-V1.01	Include file specifying C56 Application Programming Interface
N/A	N/A	N/A	libC56Api.so.1.1	R2-V1.01	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	hengstlerc56.ppd	R2-V1.01	Driver component => information file required for installation of the C56 driver
N/A	N/A	N/A	hengstlerc56.ppd.gz	R2-V1.01	Driver component => information archive file required for installation of the C56 driver
N/A	N/A	N/A	C56_PrintTerminal	R2-V1.01	Driver component => Tool for evaluating emulation commands

Installation

Installation of the C-56 printer driver for usage with USB-type printers is started by running the "install" script in the driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the C-56 printer driver for usage with C-56 USB-type printers is started by connecting the printer.

The C-56 printer driver information file is "hengstlerc56.ppd" for the C-56 type printer.

The C-56 printer driver README.TXT contains more detailed information on C-56 printer driver installation.

Removal

The "uninstall" script is to be used for the uninstallation of the installed C-56 printer driver files.

Uninstallation of installed C-56 printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

List of anomalies and bugs

Currently no anomalies or bugs are known.

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Documentation

The C-56 Linux Driver manual is available as Hengstler document D-684-141.

The C-56 Emulation Command Set manual is available as Hengstler document D-684-017 [1].

Notes

-

4 C-56 LINUX-DRIVER S684019-R2-V1.01b-BETA 2009MAY11

Description

The C-56 printer driver S684019-R2-V1.01b-BETA- 2009MAY11 is developed for Linux and is currently operational with all C-56 type printers (USB and RS232) that have firmware S684014 installed.

List of modifications

=> R2-V1.01b-BETA – 2009MAY11 – RELEASED FINAL VERSION

3rd released version of the C56 printer driver for Linux.

Mod-Id	Component	Version	Description
M-R2-001-TKA	hengstlertoextendo.c	R2-V1.01b	SetRepeatDotLine function was corrected
M-R2-002-TKA	hengstlertoextendo.c	R2-V1.01b	PreparePage was corrected for page_height settings
N/A	All files	R2-V1.01b	Changed the version information of all files to R2-V1.01b / 2009MAY11

* Disable option will not send any command data to printer, only raw data are send

Package overview

```
| C56-LinuxDriver-S684019-R2-V1_01b-BETA-2009MAY11.zip
| README.TXT
| install
| uninstall
|
+---Driver
| | hengstlerc56.ppd
| | hengstlerc56.ppd.gz
| | rastertoc56
|
+---Api
| | libC56Api.so.1.0
| | libC56Tb.so.1.0
| | C56_Api.h
|
+---Documents
| | D-684-125-C56-LinuxDriver-ReleaseNote.pdf
| | D-684-141-C56-LinuxDriver-Manual.pdf
|
+---Tools
| | C56_PrintTerminal
| | libC56Api.so.1.0
| | libC56Tb.so.1.0
|
```

List of files/components					
Date	Time	Size	File	Version	Description
N/A	N/A	N/A	C56-LinuxDriver-S684019-R2-V1_01b-BETA-2009MAY11.zip	R2-V1.01b	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R2-V1.01b	Short description of driver package
N/A	N/A	N/A	install	R2-V1.01b	Installation script for Linux
N/A	N/A	N/A	uninstall	R2-V1.01b	Un-installation script for Linux
N/A	N/A	N/A	D-684-125-C56-LinuxDriver-ReleaseNote.pdf	R2-V1.01b	Release note of the driver package
N/A	N/A	N/A	D-684-141-C56-LinuxDriver-Manual.pdf	R2-V1.01b	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R2-V1.01b	Include file specifying C-56 Tool Box with various functionality(Linux library)
N/A	N/A	N/A	libExoApi.so.1.0	R2-V1.01b	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	C56_Api.h	R2-V1.01b	Include file specifying C-56 Application Programming Interface
N/A	N/A	N/A	libExoTb.so.1.0	R2-V1.01b	Include file specifying C-56 Tool Box with various functionality(Linux library)
N/A	N/A	N/A	hengstlerc56.ppd	R2-V1.01b	Driver component => information file required for installation of the C56 driver
N/A	N/A	N/A	hengstlerc56.ppd.gz	R2-V1.01b	Driver component => information archive file required for installation of the C56 driver
N/A	N/A	N/A	C56_PrintTerminal	R2-V1.01b	Driver component => Tool for evaluating emulation commands

Installation

Installation of the C-56 printer driver for usage with USB-type printers is started by running the "install" script in the driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the C-56 printer driver for usage with C-56 USB-type printers is started by connecting the printer.

The C-56 printer driver information file is "hengstlerc56.ppd" for the C-56 type printer.

The C-56 printer driver README.TXT contains more detailed information on C-56 printer driver installation.

Removal

The "uninstall" script is to be used for the uninstallation of the installed C-56 printer driver files.

Uninstallation of installed C-56 printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

List of anomalies and bugs

Currently no anomalies or bugs are known.

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Documentation

The C-56 Linux Driver manual is available as Hengstler document D-684-141.

The C-56 Emulation Command Set manual is available as Hengstler document D-684-017 [1].

Notes

-

5 C-56 LINUX-DRIVER S684019-R2-V1.01-FINAL 2009JUL15

Description

The C-56 printer driver S684019-R2-V1.01-FINAL- 2009JUL15 is developed for Linux and is currently operational with all C-56 type printers (USB and RS232) that have firmware S684014 installed.

List of modifications

=> R2-V1.01-FINAL – 2009JUL15 – RELEASED FINAL VERSION

3rd released version of the C56 printer driver for Linux.

Mod-Id	Component	Version	Description

Package overview

```
| C56-LinuxDriver-S684019-R2-V1_01-FINAL-2009JUL15.zip
| README.TXT
| install
| uninstall
|
+---Driver
| | hengstlerc56.ppd
| | hengstlerc56.ppd.gz
| | rastertoc56
|
+---Api
| | libC56Api.so.1.0
| | libC56Tb.so.1.0
| | C56_Api.h
|
+---Documents
| | D-684-125-C56-LinuxDriver-ReleaseNote.pdf
| | D-684-141-C56-LinuxDriver-Manual.pdf
|
+---Tools
| | C56_PrintTerminal
| | libC56Api.so.1.0
| | libC56Tb.so.1.0
|
```

List of files/components					
Date	Time	Size	File	Version	Description
N/A	N/A	N/A	C56-LinuxDriver-S684019-R2-V1_01-FINAL-2009JUL15.zip	R2-V1.01b	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R2-V1.01	Short description of driver package
N/A	N/A	N/A	install	R2-V1.01	Installation script for Linux
N/A	N/A	N/A	uninstall	R2-V1.01	Un-installation script for Linux
N/A	N/A	N/A	D-684-125-C56-LinuxDriver-ReleaseNote.pdf	R2-V1.01	Release note of the driver package
N/A	N/A	N/A	D-684-141-C56-LinuxDriver-Manual.pdf	R2-V1.01	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R2-V1.01	Include file specifying C-56 Tool Box with various functionality(Linux library)
N/A	N/A	N/A	libExoApi.so.1.0	R2-V1.01	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	C56_Api.h	R2-V1.01	Include file specifying C-56 Application Programming Interface
N/A	N/A	N/A	libExoTb.so.1.0	R2-V1.01	Include file specifying C-56 Tool Box with various functionality(Linux library)
N/A	N/A	N/A	hengstlerc56.ppd	R2-V1.01	Driver component => information file required for installation of the C56 driver
N/A	N/A	N/A	hengstlerc56.ppd.gz	R2-V1.01	Driver component => information archive file required for installation of the C56 driver
N/A	N/A	N/A	C56_PrintTerminal	R2-V1.01	Driver component => Tool for evaluating emulation commands

Installation

Installation of the C-56 printer driver for usage with USB-type printers is started by running the "install" script in the driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the C-56 printer driver for usage with C-56 USB-type printers is started by connecting the printer.

The C-56 printer driver information file is "hengstlerc56.ppd" for the C-56 type printer.

The C-56 printer driver README.TXT contains more detailed information on C-56 printer driver installation.

Removal

The "uninstall" script is to be used for the uninstallation of the installed C-56 printer driver files.

Uninstallation of installed C-56 printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

List of anomalies and bugs

Currently no anomalies or bugs are known.

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Documentation

The C-56 Linux Driver manual is available as Hengstler document D-684-141.

The C-56 Emulation Command Set manual is available as Hengstler document D-684-017 [1].

Notes

-

6 C-56 LINUX-DRIVER S684019-R3-V1.02d-BETA 2011DEC09

Description

The C-56 printer driver S684019-R3-V1.02d-BETA – 2011DEC09 is developed for Linux and is currently operational with all C-56 type printers (USB and RS232) that have firmware S684007 installed.

List of modifications

=> R3-V1.02d-BETA – 2011DEC09 – RELEASED BETA VERSION

5th released version of the C-56 printer driver for Linux.

Mod-Id	Component	Version	Description

Package overview

```
| C56-LinuxDriver-S684019-R3-V1_02d-BETA-2011DEC09.zip
| README.TXT
| install
| uninstall
|
+---Driver
| | hengstlerc56.ppd
| | hengstlerc56.ppd.gz
| | rastertoc56
|
+---Api
| | libC56Api.so.1.0
| | libC56Tb.so.1.0
| | C56_Api.h
|
+---Documents
| | D-684-125-C56-LinuxDriver-ReleaseNote.pdf
| | D-684-141-C56-LinuxDriver-Manual.pdf
|
+---Tools
| | C56_PrintTerminal
| | libC56Api.so.1.0
| | libC56Tb.so.1.0
|
```

List of files/components					
Date	Time	Size	File	Version	Description
N/A	N/A	N/A	C56-LinuxDriver-S684019-R3-V1_02d-BETA-2011DEC09.zip	R3-V1.02d	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.02d	Short description of driver package
N/A	N/A	N/A	Install	R3-V1.02d	Installation script for Linux
N/A	N/A	N/A	Uninstall	R3-V1.02d	Un-installation script for Linux
N/A	N/A	N/A	D-684-125-C56-LinuxDriver-ReleaseNote.pdf	R3-V1.02d	Release note of the driver package
N/A	N/A	N/A	D-684-141-C56-LinuxDriver-Manual.pdf	R3-V1.02d	Linux driver manual
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.02d	Include file specifying C-56 Tool Box with various functionality(Linux library)
N/A	N/A	N/A	libExoApi.so.1.0	R3-V1.02d	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	C56_Api.h	R3-V1.02d	Include file specifying C-56 Application Programming Interface
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.02d	Include file specifying C-56 Tool Box with various functionality(Linux library)
N/A	N/A	N/A	hengstlerc56.ppd	R3-V1.02d	Driver component => information file required for installation of the C56 driver
N/A	N/A	N/A	hengstlerc56.ppd.gz	R3-V1.02d	Driver component => information archive file required for installation of the C56 driver
N/A	N/A	N/A	C56_PrintTerminal	R3-V1.02d	Driver component => Tool for evaluating emulation commands

List of modifications			
Id	Components	Version	Description
TKA-COR-01	C-56 Driver	R3-V1.02a	Paper sizes redefinition to points
TKA-COR-02	C-56 Driver	R3-V1.02b	Print speed correction
TKA-COR-03	C-56 Driver	R3-V1.02c	Log file added for debugging
TKA-COR-04	C-56 Driver	R3-V1.02d	Added new API communication (libusb)

Installation

Installation of the C-56 printer driver for usage with USB-type printers is started by running the "install" script in the driver folder, which will copy necessary files to system folders, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the C-56 printer driver for usage with C-56 USB-type printers is started by connecting the printer.

The C-56 printer driver information file is "hengstlerc56.ppd" for the C-56 type printer.

The C-56 printer driver README.TXT contains more detailed information on C-56 printer driver installation.

Removal

The "uninstall" script is to be used for the uninstallation of the installed C-56 printer driver files.

Uninstallation of installed C-56 printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

List of anomalies and bugs

Currently no anomalies or bugs are known.

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Documentation

The C-56 Linux Driver manual is available as Hengstler document D-684-141.

The C-56 Emulation Command Set manual is available as Hengstler document D-684-017 [1].

Notes

-

7 C-56 LINUX-DRIVER S684019-R3-V1.02f-BETA 2015NOV10

Description

The C-56 printer driver S684019-R3-V1.02f-BETA – 2015NOV10 is developed for Linux **x86** and **arm** processor type and is currently operational with all C-56 type printers (USB and RS232) that have firmware S684007 installed.

List of modifications

=> R3-V1.02f-BETA – 2015NOV10 – RELEASED BETA VERSION

6th released version of the C-56 printer driver for Linux **x86** and **arm** system types.

Mod-Id	Component	Version	Description

Package overview

```
| S-684-019-C-56-LinuxDriver-R3-V1_02f-BETA-2015NOV10.zip
| README.TXT
| install_x86
| install_arm
| uninstall_x86
| uninstall_arm
|
+---Driver
|-----+arm
|       | hengstlerc56.ppd
|       | hengstlerc56.ppd.gz
|       | rastertoc56
|-----+x86
|       | hengstlerc56.ppd
|       | hengstlerc56.ppd.gz
|       | rastertoc56
|
+---Api
|-----+arm
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|       | C56_Api.h
|-----+x86
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|       | C56_Api.h
|
+---Documents
|   | D-684-125-C56-LinuxDriver-ReleaseNote.pdf
|   | D-684-141-C56-LinuxDriver-Manual.pdf
|
+---Tools
|-----+arm
|       | C56_Api_Test
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|-----+x86
|       | C56_Api_Test
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
```

List of files/components					
Date	Time	Size	File	Version	Description
N/A	N/A	N/A	S-684-019-C-56-LinuxDriver-R3-V1_02f-BETA-2015NOV10.zip	R3-V1.02f	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.02f	Short description of driver package
N/A	N/A	N/A	install_x86	R3-V1.02f	Installation script for Linux x86
N/A	N/A	N/A	install_arm	R3-V1.02f	Installation script for Linux arm
N/A	N/A	N/A	uninstall_x86	R3-V1.02f	Un-installation script for Linux x86
N/A	N/A	N/A	uninstall_arm	R3-V1.02f	Un-installation script for Linux arm
N/A	N/A	N/A	D-684-125-C56-LinuxDriver-ReleaseNote.pdf	R3-V1.02f	Release note of the driver package
N/A	N/A	N/A	D-684-141-C56-LinuxDriver-Manual.pdf	R3-V1.02f	Linux driver manual
N/A	N/A	N/A	libC56Tb.so.1.0	R3-V1.02f	Include file specifying C-56 Tool Box with various functionality(Linux library)
N/A	N/A	N/A	libC56Api.so.1.0	R3-V1.02f	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	C56_Api.h	R3-V1.02f	Include file specifying C-56 Application Programming Interface
N/A	N/A	N/A	libExoTb.so.1.0	R3-V1.02f	Include file specifying C-56 Tool Box with various functionality(Linux library)
N/A	N/A	N/A	hengstlerc56.ppd	R3-V1.02f	Driver component => information file required for installation of the C56 driver
N/A	N/A	N/A	hengstlerc56.ppd.gz	R3-V1.02f	Driver component => information archive file required for installation of the C56 driver
N/A	N/A	N/A	C56_Api_Test	R3-V1.02f	Driver component => Small Tool to test connection to printer via C-56 API

List of modifications			
Id	Components	Version	Description
TKA-MOD-01	C-56 Linux Driver	R3-V1.02f	Redesigned directory structure
TKA-MOD-02	C-56 Linux Driver	R3-V1.02f	Linux driver extended with ARM processor types
TKA-MOD-03	C-56 Linux Driver / Tools	R3-V1.02f	C56_PrintTerminal tool was removed from this package
TKA-MOD-04	C-56 Linux Driver / Tools	R3-V1.02f	New tool C56_Api_Test was developed, to test C-56 API functionality

Installation

Installation of the C-56 printer driver for use is started by using the "install_x86" script for x86 systems and "install_arm" script for arm systems in driver folder, which will copy necessary files to system folders for particular system type, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the C-56 printer driver for usage with C-56 USB-type printers is started by connecting the printer.

The C-56 printer driver information file is "hengstlerc56.ppd" for the C-56 type printer.

The C-56 printer driver README.TXT contains more detailed information on C-56 printer driver installation.

Removal

The "**uninstall_x86**" script is to be used for the removal of installed C-56 printer driver files from **x86** systems.

The "**uninstall_arm**" script is to be used for the removal of installed C-56 printer driver files from **arm** systems.

Uninstallation of installed C-56 printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

List of anomalies and bugs

Currently no anomalies or bugs are known.

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Documentation

The C-56 Linux Driver manual is available as Hengstler document D-684-141.

The C-56 Emulation Command Set manual is available as Hengstler document D-684-017 [1].

Notes

-

8 C-56 LINUX-DRIVER S684019-R3-V1.03a-BETA 2020JAN20

Description

The C-56 printer driver S684019-R3-V1.03a-BETA – 2020JAN20 is developed for Linux **x86** / **x64** and **arm** processor type and is currently operational with all C-56 type printers (USB and RS232) that have firmware S684007 installed.

List of modifications

=> R3-V1.03a-BETA – 2020JAN20 – RELEASED BETA VERSION

6th released version of the C-56 printer driver for Linux **x86** / **x64** and **arm** system types.

Mod-Id	Component	Version	Description

Package overview

```
| S-684-019-C-56-LinuxDriver-R3-V1_03a-BETA-2020JAN20.zip
| README.TXT
| install_x86
| install_x64
| install_arm
| uninstall_x86
| uninstall_x64
| uninstall_arm
|
+---Driver
|-----+arm
|         | hengstlerc56.ppd
|         | hengstlerc56.ppd.gz
|         | rastertoc56
|-----+x86
|         | hengstlerc56.ppd
|         | hengstlerc56.ppd.gz
|         | rastertoc56
|-----+x64
|         | hengstlerc56.ppd
|         | hengstlerc56.ppd.gz
|         | rastertoc56
|
+---Api
|-----+arm
|         | libC56Api.so.1.0
|         | libC56Tb.so.1.0
|         | C56_Api.h
|-----+x86
|         | libC56Api.so.1.0
|         | libC56Tb.so.1.0
|         | C56_Api.h
|-----+x64
|         | libC56Api.so.1.0
|         | libC56Tb.so.1.0
|         | C56_Api.h
|
+---Documents
|   | S-684-019-C56-LinuxDriver-ReleaseNote.pdf
|   | D-684-141-C56-LinuxDriver-Manual.pdf
|
+---Tools
|-----+arm
|         | C56_Api_Test
|         | libC56Api.so.1.0
|         | libC56Tb.so.1.0
```

```

|-----+x86
|       | C56_Api_Test
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|-----+x64
|       | C56_Api_Test
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|
|----Sources
|       | C56_Api.h
|       | C56_Api_Test.c
|       | README.txt

```

List of files/components					
Date	Time	Size	File	Version	Description
N/A	N/A	N/A	S-684-019-C-56-LinuxDriver-R3-V1_03a-BETA-2020JAN20.zip	R3-V1.03a	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.03a	Short description of driver package
N/A	N/A	N/A	install_x86	R3-V1.03a	Installation script for Linux x86
N/A	N/A	N/A	install_x64	R3-V1.02f	Installation script for Linux x64
N/A	N/A	N/A	install_arm	R3-V1.02f	Installation script for Linux arm
N/A	N/A	N/A	uninstall_x86	R3-V1.02f	Un-installation script for Linux x86
N/A	N/A	N/A	uninstall_x64	R3-V1.02f	Un-installation script for Linux x64
N/A	N/A	N/A	uninstall_arm	R3-V1.02f	Un-installation script for Linux arm
N/A	N/A	N/A	S-684-019-C56-LinuxDriver-ReleaseNote.pdf	R3-V1.03a	Release note of the driver package
N/A	N/A	N/A	D-684-141-C56-LinuxDriver-Manual.pdf	R3-V1.03a	Linux driver manual
N/A	N/A	N/A	libC56Tb.so.1.0	R3-V1.03a	Include file specifying C-56 Toolbox with various functionality (Linux library)
N/A	N/A	N/A	libC56Api.so.1.0	R3-V1.03a	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	C56_Api.h	R3-V1.03a	Include file specifying C-56 Application Programming Interface
N/A	N/A	N/A	libC56Tb.so.1.0	R3-V1.03a	Include file specifying C-56 Toolbox with various functionality (Linux library)
N/A	N/A	N/A	hengstlerc56.ppd	R3-V1.03a	Driver component => information file required for installation of the C56 driver
N/A	N/A	N/A	hengstlerc56.ppd.gz	R3-V1.03a	Driver component => information archive file required for installation of the C56 driver
N/A	N/A	N/A	C56_Api_Test	R3-V1.03a	Driver component => Small Tool to test connection to printer via C-56 API
N/A	N/A	N/A	Sources\README.TXT	R3-V1.03a	Instruction for demo applications, how to compile sources and run them
N/A	N/A	N/A	Sources\C56_Api_Test.c	R3-V1.03a	Source file of demo application for evaluating

					purposes
--	--	--	--	--	----------

List of modifications

Id	Components	Version	Description
TKA-MOD-01	C56 Linux Driver	R3-V1.03a	Linux driver extended with USB 2.0 support for x86 / x64/ arm processor types
TKA-MOD-02	C56 Linux Driver	R3-V1.03a	New C56_Api_Test has been created, to check printer status
TKA-MOD-03	C56 Linux Driver	R3-V1.03a	Document D-684-125 has been discontinued. Replaced by document S-684-019.
TKA-MOD-04	C56 Linux Driver	R3-V1.03a	C56_API implemented FIFO buffer for inquiring data partly, separate package header data and body data.
TKA-MOD-05	C56 Linux Driver	R3-V1.03a	C56_API Timing delays corrected to original values for reading/writing.
TKA-MOD-06	C56 Linux Driver	R3-V1.03a	C56_API FIFO buffer correction of data inquiry length
TKA-MOD-07	C56 Linux Driver	R3-V1.03a	C56_API now compatible also with Ubuntu 18.04 64-bit platform. Handle type "int" has been changed to "int pointer" which ensure that under all 64/32-bit platform handle gets correct value.

Installation

Installation of the C-56 printer driver for use is started by using the "install_x86" script for x86 systems, "install_x64" script for x64 systems and "install_arm" script for arm systems in driver folder, which will copy necessary files to system folders for particular system type, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the C-56 printer driver for usage with C-56 USB-type printers is started by connecting the printer.

The C-56 printer driver information file is "hengstlerc56.ppd" for the C-56 type printer.

The C-56 printer driver README.TXT contains more detailed information on C-56 printer driver installation.

Removal

The "uninstall_x86" script is to be used for the removal of installed C-56 printer driver files from **x86** systems.

The "uninstall_x64" script is to be used for the removal of installed C-56 printer driver files from **x64** systems.

The "uninstall_arm" script is to be used for the removal of installed C-56 printer driver files from **arm** systems.

Uninstallation of installed C-56 printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

List of anomalies and bugs

TKA-BUG-01	RS232 Communication currently not working correctly (only with serial printers)
TKA-BUG-02	Plug&Play does not work on all Linux platforms (x86/ x64) - probably issue with Linux kernel and usage of new libusb library

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Documentation

The C-56 Linux Driver manual is available as Hengstler document D-684-141.

The C-56 Emulation Command Set manual is available as Hengstler document D-684-017 [1].

Notes

-

List of tested platforms

Board types	Linux platform
USB 1.1 / USB 2.0	Mint 18.1 – 32bit
USB 1.1 / USB 2.0	Mint 18.1 – 64bit
USB 1.1 / USB 2.0	Red Hat 7.5 – 64bit
USB 1.1 / USB 2.0	Ubuntu 18.04 – 64bit
USB 1.1 / USB 2.0	Raspbian (Debian light) – Raspberry PI 2 - ARM7

9 C-56 LINUX-DRIVER S684019-R3-V1.04-FINAL 2020FEB12

Description

The C-56 printer driver S684019-R3-V1.04-FINAL – 2020FEB12 is developed for Linux **x86** / **x64** and **arm** processor type and is currently operational with all C-56 type printers (USB and RS232) that have firmware S684007 installed.

List of modifications

=> R3-V1.04-FINAL – 2020FEB12 – RELEASED FINALVERSION

6th released version of the C-56 printer driver for Linux **x86** / **x64** and **arm** system types.

Mod-Id	Component	Version	Description

Package overview

```
| S-684-019-C-56-LinuxDriver-R3-V1_04-FINAL-2020FEB12.zip
| README.TXT
| install_x86
| install_x64
| install_arm
| uninstall_x86
| uninstall_x64
| uninstall_arm
|
+---Driver
|-----+arm
|       | hengstlerc56.ppd
|       | hengstlerc56.ppd.gz
|       | rastertoc56
|-----+x86
|       | hengstlerc56.ppd
|       | hengstlerc56.ppd.gz
|       | rastertoc56
|-----+x64
|       | hengstlerc56.ppd
|       | hengstlerc56.ppd.gz
|       | rastertoc56
|
+---Api
|-----+arm
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|       | C56_Api.h
|-----+x86
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|       | C56_Api.h
|-----+x64
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|       | C56_Api.h
|
+---Documents
|   | S-684-019-C56-LinuxDriver-ReleaseNote.pdf
|   | D-684-141-C56-LinuxDriver-Manual.pdf
|
+---Tools
|-----+arm
|       | C56_Api_Test
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
```

```

|-----+x86
|       | C56_Api_Test
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|-----+x64
|       | C56_Api_Test
|       | libC56Api.so.1.0
|       | libC56Tb.so.1.0
|
|----Sources
|       | C56_Api.h
|       | C56_Api_Test.c
|       | README.txt

```

List of files/components					
Date	Time	Size	File	Version	Description
N/A	N/A	N/A	S-684-019-C-56-LinuxDriver-R3-V1_03a-BETA-2020JAN20.zip	R3-V1.03a	Complete driver package as zip file
N/A	N/A	N/A	README.TXT	R3-V1.03a	Short description of driver package
N/A	N/A	N/A	install_x86	R3-V1.03a	Installation script for Linux x86
N/A	N/A	N/A	install_x64	R3-V1.02f	Installation script for Linux x64
N/A	N/A	N/A	install_arm	R3-V1.02f	Installation script for Linux arm
N/A	N/A	N/A	uninstall_x86	R3-V1.02f	Un-installation script for Linux x86
N/A	N/A	N/A	uninstall_x64	R3-V1.02f	Un-installation script for Linux x64
N/A	N/A	N/A	uninstall_arm	R3-V1.02f	Un-installation script for Linux arm
N/A	N/A	N/A	S-684-019-C56-LinuxDriver-ReleaseNote.pdf	R3-V1.03a	Release note of the driver package
N/A	N/A	N/A	D-684-141-C56-LinuxDriver-Manual.pdf	R3-V1.03a	Linux driver manual
N/A	N/A	N/A	libC56Tb.so.1.0	R3-V1.03a	Include file specifying C-56 Toolbox with various functionality (Linux library)
N/A	N/A	N/A	libC56Api.so.1.0	R3-V1.03a	Application Programming Interface/API (Linux library)
N/A	N/A	N/A	C56_Api.h	R3-V1.03a	Include file specifying C-56 Application Programming Interface
N/A	N/A	N/A	libC56Tb.so.1.0	R3-V1.03a	Include file specifying C-56 Toolbox with various functionality (Linux library)
N/A	N/A	N/A	hengstlerc56.ppd	R3-V1.03a	Driver component => information file required for installation of the C56 driver
N/A	N/A	N/A	hengstlerc56.ppd.gz	R3-V1.03a	Driver component => information archive file required for installation of the C56 driver
N/A	N/A	N/A	C56_Api_Test	R3-V1.03a	Driver component => Small Tool to test connection to printer via C-56 API
N/A	N/A	N/A	Sources\README.TXT	R3-V1.03a	Instruction for demo applications, how to compile sources and run them
N/A	N/A	N/A	Sources\C56_Api_Test.c	R3-V1.03a	Source file of demo application for evaluating

					purposes
--	--	--	--	--	----------

List of modifications

Id	Components	Version	Description

Installation

Installation of the C-56 printer driver for use is started by using the "**install_x86**" script for x86 systems , "**install_x64**" script for x64 systems and "**install_arm**" script for arm systems in driver folder, which will copy necessary files to system folders for particular system type, and then selecting [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

Installation of the C-56 printer driver for usage with C-56 USB-type printers is started by connecting the printer.

The C-56 printer driver information file is "hengstlerc56.ppd" for the C-56 type printer.

The C-56 printer driver README.TXT contains more detailed information on C-56 printer driver installation.

Removal

The "**uninstall_x86**" script is to be used for the removal of installed C-56 printer driver files from **x86** systems.

The "**uninstall_x64**" script is to be used for the removal of installed C-56 printer driver files from **x64** systems.

The "**uninstall_arm**" script is to be used for the removal of installed C-56 printer driver files from **arm** systems.

Uninstallation of installed C-56 printer is started by deleting this printer from the list of printers in [PRINTERS]->[ADD NEW PRINTER] in the Linux graphics interface, or by using "localhost:631" in your web browser.

List of anomalies and bugs

TKA-BUG-01	RS232 Communication currently not working correctly (only with serial printers)
TKA-BUG-02	Plug&Play does not work on all Linux platforms (x86/ x64) - probably issue with Linux kernel and usage of new libusb library

List of incompatibilities to previous versions

Currently no incompatibilities are known.

List of restrictions

Currently no restrictions are known.

Documentation

The C-56 Linux Driver manual is available as Hengstler document D-684-141.

The C-56 Emulation Command Set manual is available as Hengstler document D-684-017 [1].

Notes

-

List of tested platforms

Board types	Linux platform
USB 1.1 / USB 2.0	Mint 18.1 – 32bit
USB 1.1 / USB 2.0	Mint 18.1 – 64bit
USB 1.1 / USB 2.0	Red Hat 7.5 – 64bit
USB 1.1 / USB 2.0	Ubuntu 18.04 – 64bit
USB 1.1 / USB 2.0	Raspbian (Debian light) – Raspberry PI 2 - ARM7