

Draco Tera / Extender - Firmware

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Firmware - Matrix

Date	Version	Modification
2020-12-01	MATXCPU V4.00	New Features and Enhancements • Support of Draco tera flex series • Support of 483/493 DisplayPort 1.1 Dual-Head series • Chinese OSD support (further languages in progress) • Support of fast update for 490 and 495 series • Transmission of keystrokes via GPIO module • Execution of favorites/macros via GPIO module • Dual LAN option for a separate configuration of both LAN ports (480-CTRL2 only) for various services • Support of IP CPU version 2 • New API commands (extended information) • LDAP support for matrix login via Tera tool • Simplified session management for IP CPUs (please note: session view in OSD per default upon being connected to an IP CPUs in a matrix) Improvements • Support of 32 matrices in Matrix Grid • Execution of CON/User macros when connected to local input • Port configuration for LDAP servers • User Principal Name for LDAP login • Handling of community string in LDAP • Initialization process of redundant extenders at the matrix • Redundancy behavior upon network switch failure • Navigation OSD search results with cursor keys • Expanding and collapsing of all groups simultaneously (<LShift> + <+> & <LShift> + <->) • Previous switching <p> when being connected to local input • Activation of I/O board trace (Syslog) via Tera Tool Fixed Bugs • Power user and private connections • Local OSD access to controller board 480-CTRL2 • Switching to local input • Switching of redundant CONs to non-redundant CPUs
	MATXLCPU V4.00	
	MATXIO8 V4.00	
	MATLIO8 V4.00	
	MATLPXP V1.02	
	MATLOS V1.08	
	MATXDVI V1.15	

Date	Version		Modification
2020-05-06	MATXOSD	V3.48	New Features and Enhancements
2020-11-10	MATLOSD	V2.00	• Support of fast update for 490 & 495 series
2020-02-18	MATXVOSD	V4.03	Improvements
2020-10-22	MATLVOSD	V2.01	• Increased serial communication speed
2020-11-20	MATLVOSC	V1.13	Fixed Bugs
2020-05-11	MATXOSL	V3.15	• Minor bug fixes
2019-04-30	MATXVOSL	V3.06	• Grid line communication
2018-06-26	MATLBDG	V1.00	• Connectivity to 3G XV Cat X extenders
2020-01-16	MATXLNK	V1.05	• Multi-Screen Control 2.0
2017-02-02	MATXOSD	V3.35	New Features and Enhancements
2017-09-04	MATXVOSD	V3.35	• Support of 8-port CPU VGA switch
2018-01-17	MATXOSL	V3.12	Improvements
2017-07-04	MATXVOSL	V3.05	• Accelerated update Fixed Bugs • XV grid line communication • Video only switching in Draco tera compact matrices • Port communication • Minor bug fixes

Firmware - Extender - CON Units

Date	Version	Modification
2019-05-09	EXTCON V3.28	New Features and Enhancements:
2019-12-02	EXTICON V2.36	• Support of 100 Mbit/s L/R474-BXE2 module (from 481 series)
2020-05-12	EXTIPCON V1.01	
2019-05-27	EXTRCON V2.33	• Support of low latency option (49x series only)
2019-11-28	EXTHRCON V1.37	• Colored fix frame
2019-12-05	EXTDLCON V4.21	• Redundancy frame (some series only)
2019-05-02	ECTDLCON V1.00	• 144 Hz / 240 Hz frame rate support (490 series only)
2020-12-21	EXTDPCON V2.22	• Support of GPIO add-on modules
2018-02-19	EXVDPCON V1.20	• Disable redundancy (parameter DISRED)
2020-10-26	ECTHRCON V1.26	• Adjustable redundancy frame (width, duration, color)
2019-12-03	ECTDPCON V2.15	• Video codec 8 for 49x series
2018-02-19	ECVDPCON V1.20	Improvements:
2018-02-19	EXTVCON V3.20	• Update process
2018-08-02	EXTHVCON V1.09	• Embedded audio (HDMI & DisplayPort interface)
2018-05-07	EXVDLCON V1.21	• LOS timer for HDMI only board (EXTHVCON)
2020-10-26	EXTSCON V1.02	• Update behavior
2017-11-28	EZTDPCON V1.00	• USB 2.0 embedded 2 handling
2020-11-19	ECTDHCON V1.04	Fixed Bugs:
2018-11-15	FZVDLCON V2.03	• Support of RS422 add-on module
2018-11-27	FCVDLCON V2.00	• Link switching for redundancy
2018-11-27	FCTDLCON V2.00	• Analog audio
2020-10-06	FZVDPCON V3.01	• Dual-Head mode timing
2020-10-06	FCVDPCON V3.01	• OSD communication
2020-11-03	FCTDPCON V3.00	• EDID transmission
2017-03-29	FMVDLCON V2.02	• Parameter handling for 482 Dual-Head series
2017-03-29	FSVDLCON V2.02	• Ticket IHSE1-276
2020-11-03	FXTDPCON V3.00	• Digital audio fix for Esterline monitor (490 series)
2018-07-13	FZSDECON V1.01	• Low Latency Mode (Parameter: ENALOLA)
2019-05-08	FZSHRCON V1.04	
2018-06-11	FZTDLCON V2.30	
2020-11-03	FZTDPCON V3.00	
2020-12-10	FZVDECON V3.09	
2018-12-07	FZVOECON V2.00	
2018-12-11	FZXDECON V2.12	
2020-12-04	FZVDXCON V3.04	
2020-10-29	FZVMECON V3.01	
2019-06-13	ECTOPCON V1.01	
2018-09-06	FZVOPS21 V1.01	
2017-12-21	EXTCON V3.25	New Features and Enhancements:
2018-01-26	EXTICON V1.21	• Support of USB 2.0 embedded module V2 (BXE2)
2018-01-29	EXTRCON V2.27	• Blue frame on redundant link (ENARED)

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2018-02-18	EXTHRCON V1.30	• Audio digital/analog conversion
2018-01-25	EXTDLCON V4.14	• Dedicated DVI or HDMI output of 481 series (ENADVI, ENAHDMI)
2018-01-16	EXTDPCON V2.02	
2018-02-19	EXVDPCON V1.20	Improvements:
2018-02-18	ECTDPCON V2.10	• Video timing
2018-02-19	ECVDPCON V1.20	• RAM timing
2018-02-19	EXTVCON V3.20	• Transmission of USB 2.0 embedded V1
2017-10-18	EXTHVCON V1.05	• USB-HID filter for OSD control
2018-02-19	EXVDLCON V1.20	• Support of 1440x2560 (482 & 483 series)
2017-11-21	EXTSCON V1.01	• Freeze of the last frame (ENAHOLDPIC)
		Fixed Bugs:
		• String name (EXR -> EXT)
		• H-sync/v-sync (EXTICON)
		• Resolution 1720x1440
		• Minor bug fixes

Firmware - Extender - CPU Units

Date	Version	Modification
2020-01-13	EXTCPU V3.31	New Features and Enhancements
2019-12-02	EXTICPU V1.51	• Reading out hardware ID
2019-11-28	EXTRCPU V2.26	• Video codec 8 for 49x series
2019-11-28	EXTHRCPU V1.25	Improvements
2019-10-24	EXTDLCPU V4.17	• Programming of EDID
2019-05-02	ECTDLCPU V1.00	• Embedded audio (HDMI & DisplayPort interface)
2020-12-21	EXTDPCPU V2.10	• Switching between digital audio add-on module and embedded audio
2018-02-19	EXVDPCPU V1.20	• USB 2.0 embedded 2 handling
2020-10-26	ECTHRCPU V1.26	Fixed Bugs
2020-01-29	ECTDPCPU V2.15	• Update CONVGPU (EXTIPCU only)
2018-02-19	ECVDPCPU V1.20	• Fiber transmission
2019-10-18	EXTVCPU V3.21	• Video timing
2019-10-28	EXTHVCPU V1.10	• Support of USB-HID add-on module
2018-02-19	EXVDLCPU V1.20	• Matrix communication
2016-08-02	EXVICPU V0.92	• Video mode detection
2020-08-04	EXTSCPU V1.02	• Communication with grid I/O boards
2016-07-25	EXTI8MOD V1.02	• Switching of 8-port VGA CPU switch
2019-08-02	EXVI8CPU V1.00	• Parameter handling for 482 Dual-Head series
2019-07-12	EXTIPCU V1.05	• BXE2 connection loss
2020-11-17	ECTDHCPU V1.02	• Updates
2019-02-12	FCVDLCPU V2.01	• Green stripe issue on right monitor boarder
2020-10-06	FCVDPCPU V3.02	• EXTSCPU: Support of EDID 1.4
2019-02-12	FZVDLCPU V2.03	• OSD stability using FCTICPU
2020-10-06	FZVDPCPU V3.00	• Deinterlacing SDI CPU
2020-06-25	FCTICPU V3.02	• Low latency mode (parameter: ENALOLA)
2020-11-03	FCTDPCPU V3.00	
2020-09-09	FCTHRCPU V3.00	
2018-11-27	FCTDLCPU V2.00	
2020-12-10	FCVDECPU V3.05	
2019-02-06	FCXDECPU V1.01	
2020-11-03	FXTDPCPU V3.00	
2018-07-13	FZSDECPU V1.01	
2018-09-24	FZSHRCPU V1.01	
2018-06-11	FZTDLCPU V2.30	
2020-11-03	FZTDPCPU V3.00	
2020-12-10	FZVDECPU V3.09	
2019-03-12	FZXDECPU V2.19	
2019-03-12	FZXDBCPU V2.02	
2020-12-04	FZVDXCPU V3.08	
2020-10-28	FZVMECPU V3.02	
2019-12-13	FZVHRCPU V2.01	

Date	Version	Modification
2018-02-02	EXTCPU V3.25	New Features and Enhancements
2018-02-13	EXTICPU V1.43	• Support of USB 2.0 embedded module V2 (BXE2) with 50Mbit/s
2018-01-26	EXTRCPU V2.21	
2018-01-25	EXTHRCPU V1.17	• Writing/reading Config.txt via matrix
2018-01-17	EXTDLCPU V4.12	Improvements
2018-01-16	EXTDPCPU V2.01	• Video timing
2018-02-19	EXVDPCPU V1.20	• Transmission of USB 2.0 embedded V1
2018-02-19	ECTDPCPU V2.10	• Support of 1440x2560 (482 & 483 series)
2018-02-19	ECVDPCPU V1.15	Fixed Bugs
2018-02-19	EXTVCPU V3.20	• String name (EXR -> EXT)
2017-10-18	EXTHVCPU V1.05	• Handling of SFP modules
2018-02-19	EXVDLCPU V1.20	• Resolution 1720x1440
2016-08-02	EXVICPU V0.92	• Resolution 1024x768 (EXTICPU)
2020-08-04	EXTSCPU V1.02	• Update (EXTICPU) • Minor bug fixes

Firmware - Extender - MSD

Date	Version	Modification
2020-04-22	EXTMSD V2.51	New Features and Enhancements
2019-10-11	EZTMSD V2.00	• Updatability of MSD files via Tera Tool (EZx only)
2019-10-11	EXTIMSD V2.00	Improvements
2020-04-21	EXTDLMSD V2.01	• USB-HID reset
2017-11-21	EXTLMSD V1.02	• CPU detection for MST mode
2020-02-27	EXTDEMSD V2.01	Fixed Bugs
2019-10-11	EXTDZMSD V2.00	• EDID display
2020-02-25	EZTDEMSD V2.02	• Minor bug fixes
2020-04-21	EZTDLMSD V2.01	
2017-05-31	EXTMSD V2.42	New Features and Enhancements
2017-05-03	EXTIMSD V1.26	• New parameters (see CPU/CON firmware)
2017-04-11	EXTDLMSD V1.30	Improvements
2017-11-21	EXTLMSD V1.02	• USB-HID reset
		Fixed Bugs
		• Converter settings are preserved after update (EXTIMSD) • Minor bug fixes
2016-01-29	EXTMSD V2.38	New Features and Enhancements
2016-01-29	EXTIMSD V1.22	• New DISPLAY2 parameter selects second video channel of 482 Dual-Head CPU unit
2016-05-03	EXTDLMSD V1.27	• Deletion of Config.txt recovers factory settings
2017-03-30	EXTDEMSD V1.09	• Versioning of Config.txt file
2017-02-22	EXTDZMSD V1.05	• Versioning of Config.txt file
		Improvements
		• Manual extender update from Windows 8 computers • Differentiation of EDIDs (482 series only)
		Fixed Bugs
		• Digital audio parameters for redundant CPUs • USB 1.1 support of USB 2.0 embedded upgrade modules • Various minor bug fixes

Firmware - HID

Date	Version		Modification
2020-11-12	HIDCPU	V4.03	Improvements • Adjustment of polling interval for intervals unequal to 8, 16 or 32 ms • Support of Adder iPeps+ Fixed Bugs • Multi-Screen Control 2.0 Information • End of X-Keys support as a special implementation for matrix macros and favorites
	HIDCON	V4.03	
	MATXHID	V4.03	

Firmware - Converter

Date	Version		Modification
2020-03-06	CONVGPU	V1.52	New Features and Enhancements • New customized video modes • Support of XV extenders • Support of EDID 1.4 Fixed Bugs • Update • Minor bug fixes
2016-07-14	CONVGPU	V1.40	New Features and Enhancements • New resolutions for SDI (1080p@24/25/30Hz) • EDID change via keyboard command (VGA vs. DVI) <Hotkey><V><G> (VGA) or <Hotkey><V><D> (DVI) Improvements • EDID transmission • Scaling Fixed Bugs • RAM timing • Saving of image settings • Minor bug fixes