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LINX™ DVI Switchers and LINX CrossXFormat® Switchers Firmware Version 2.4.1 Release Notes March 2011

The following release notes apply to Linx 800, 900, 1600, 1700, 3200, and 3300 switchers.

A new upgrade procedure is required for this release. The upgrade instructions may be found in the User Guides and in a separate document which may be found on the product CD and RGB Spectrum website. Please read the complete procedure before attempting a firmware upgrade.

The firmware upgrade will erase non-factory-default data in the switcher. Use the EXPORTSETTINGS command to save EDID and preset information; download the saved settings to a PC. After the upgrade is complete, upload settings from the PC to the switcher and use the IMPORTSETTINGS command to restore the information.

A successful upgrade will result in the following versions being reported by the SYSINFO command.

- Backplane FPGA version 1.22 for the Linx 1600/1700 and Linx 3200/3300
- Backplane FPGA version 1.23 for the Linx 800/900
- CPLD firmware version 1.17

Input Cards

- Single dual-link: firmware version 0.104; FPGA version 2.1.2
- Dual single-link DVI/RGB: firmware version 0.104; FPGA version 0.2.20
- Dual single-link DVI: firmware version 0.104; FPGA version 1.1.1
- *Dual-link/single-link: firmware 0.104; FPGA version 2.20 (for units shipped before April 2010)*

Output Cards

- Single dual-link DVI: firmware version 0.105; FPGA version 3.1.2
- Dual single-link DVI: firmware version 0.105; FPGA version 0.2.20
- *Dual-link/single-link: firmware 0.105; FPGA version 2.20 (for units shipped before April 2010)*

Notes

1. HDCP Enable/Disable by input channel has been added to the **Advanced Settings Screen** of WCP. It is recommended that HDCP be disabled for any inputs that are not connected to an HDCP-compliant source.
2. This release supports new custom timing for analog inputs via command line and WCP for Linx CrossXFormat models. Custom timings may be saved to and loaded from the **Timing List**. See the User's Guide for full details.

- Linx DVI Switchers will not respond to commands intended exclusively for Linx CrossXFormat Switchers. A Linx 1600 or 1700 will not respond to commands intended exclusively for a Linx 3200 or 3300, respectively, nor will a Linx 800 or 900 respond to commands intended exclusively for a Linx 1600, 3200, 1700 or 3300.

New Linx CrossXFormat Commands

Input Commands

INputTiMing

Syntax: intm <signal type> <input port> [<hfp> <hs> <hbp> <hact> <vfp> <vs> <vbp> <vact> | <parameter> <value>]

Parameter	Description	Parameter Values
signal type		rgb ypbpr
input port		1 ... 32
hfp	horizontal front porch	0 ... 3000
hs	horizontal sync	16 ... 640
hbp	horizontal back porch	0...640
hact	horizontal active	16 ... 2048
vfp	vertical front porch	0.0...512.0
vs	vertical sync	2.0...32.0
vbp	vertical back porch	0.0 ... 512.0
vact	vertical active	12 ... 1440
parameter		HFP HS HBP HACT VFP VS VBP VACT
value		parameter value

This command sets the input timing for an input port on a parameter-by-parameter basis. The command supports the ability to set all parameters at once, or the ability to set (or query) the status of individual parameters.

INputTiMingLOAD

Syntax: intmload <signal type> <input port> <list entry number>

Parameter	Parameter Values
signal type	rgb ypbpr
input port	1 ... 32
list entry number	1 ... 160

Sets the input timing parameters from values stored in the specified Timing List. This command is used to override the timing parameters for an analog input signal.

INputTiMingSAVE

Syntax: intmsave <signal type> <input port> <list entry number>

Parameter	Parameter Values
signal type	rgb ypbpr
input port	1 ... 32
list entry number	100 ... 160

Saves the current input timing settings to the specified user Timing List slot.

INputNAME

Syntax: inname <signal type> <input port> [<name string>]

Parameter	Parameter Values
signal type	rgb ypbpr
input port	1 ... 32
name string	Alpha-numeric, underscore

Assigns a name to a timing descriptor on an input port.

Timing List Commands

TiMingLIST

Syntax: tmlist [<list entry number start>] [<list entry number stop>]

Parameter	Parameter Values
list entry number start	1 ... 160
list entry number stop	1 ... 160

Displays the specified Timing List entries.

TiMingNAME

Syntax: tmname <list entry number> [<name string>]

Parameter	Parameter Values
list entry number	100 ... 160
name string	Alphanumeric, underscore

Assigns a user-defined name to a Timing List entry. The name text string can be up to 23 alphanumeric characters with no spaces (use underscore in place of a space).

TiMingDELeTe

Syntax: tmdel <list entry number>

Parameter	Parameter Values
list entry number	100 ... 160

Deletes the specified user Timing List entry. Timing List entries 1...99 are reserved for factory-specified timing and may not be deleted.

TiMingLISTCLEAR

Syntax: tmlistclear

Deletes all user-defined Timing, List entries 100 to 160. This does not affect the factory-specified timing entries 1 ... 99.

TiMingLISTLOAD

Syntax: tmlistload <list entry number> <name string> <hfp> <hs> <hbp> <hact> <vfp> <vs> <vbp> <vact> <hfreq> <sync> <hpol> <vpol> <il>

Parameter	Description	Parameter Values
list entry number		100 ... 160
name string		Alphanumeric, underscore
hfp	horizontal front porch	0 ... 3000
hs	horizontal sync	16 ... 640
hbp	horizontal back porch	0 ... 640
hact	horizontal active	16 ... 2048
vfp	vertical front porch	0.0 ... 512.0
vs	vertical sync	2.0 ... 32.0
vbp	vertical back porch	0.0 ... 512.0
vact	vertical active	12 ... 1440
hfreq	horizontal frequency	12500 ... 125000
sync	sync format	3 4 5 TRILEVEL
hpol	horizontal polarity	NEG POS
vpol	vertical polarity	NEG POS
il	interlace	OFF ON