



Release Notes

D12 Firmware for 53xx Series KVM Extenders

Document #: 90-01638

Firmware Release Date: January 12 2018
Version: A01

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1. Firmware Release Notes

The following notes are applicable to the D12 firmware release associated with the EL5353, EL5363, VU5353 and VU5363 KVM Extenders.

NOTE: D12 is backwards compatible with D-Stream firmware release D02. There have been no releases between D02 and D12.

IMPORTANT: Complete systems (Local and Remote Extenders) should always be upgraded to the most recent firmware version. In order to provide support, Icron Technical Support will require both Local and Remote Extenders be on the same and the most recent firmware.

The D12 firmware release is comprised of:

- ExtremeUSB® N12 firmware (updated from N09 contained in D02)
- VS A03 firmware (unchanged from D02)

1.1 Included Features and Fixes

The D12 firmware adds the following features and fixes on top of the advancements made in the D02 firmware release:

- Ability to identify the revision of the ExtremeUSB ASIC
- Continued support for the newest generation of USB 2.0 devices.

1.2 Identified Firmware Issues

No new firmware issues have been identified as a result of this firmware release.

1.3 Upgrade Procedure

The process to upgrade to firmware D12 requires a computer running Icron's ExpressLink™ software application connected by a specialty programming cable and adaptor card to the 5353/5363 extender. The upgrade process takes approximately one minute for each of the local and remote extender units, totaling approximately two minutes per complete set.

For information on how to obtain the programming cable, adaptor card and the ExpressLink™ application with D12 firmware, as well as detailed step by step upgrade instructions, please contact Icron Technical Support at <http://icron.com/support>.

Please note: all configurations should be tested prior to any production installation or mass upgrade roll-out.

2. Impacted Products

Supported Icron product part numbers include, but are not limited to the following:

Extender Model	Part number
VU5353 KVM extender DVI + USB 2.0 over 100m CAT 5e/6/7	01-00554, 01-00555, 01-00556, 01-00557, 01-00558, 02-00086, 02-00087
VU5363 KVM extender HDMI® + USB 2.0 over 100m CAT 5e/6/7	01-00559, 01-00560, 01-00561, 01-00562, 01-00563, 02-00093, 02-00094
EL5353 KVM extender DVI + USB 2.0 over 100m CAT 5e/6/7	00-00381, 00-00382, 00-00383, 00-00384, 00-00385
EL5363 KVM extender HDMI + USB 2.0 over 100m CAT 5e/6/7	00-00386, 00-00387, 00-00388, 00-00389, 00-00390

Please review your own ExtremeUSB® based extenders, or consult with your account manager to determine if this release applies to your extenders.

3. Definitions

Device Cycle – unplugging and plugging back in, or turning off and turning back on a USB device.

LEX – Local Extender module. The module that is connected to the host computer.

Link Cycle – unplugging and plugging back in the link between the Local and Remote Extenders. This is typically the Cat X cable or Fiber cable between the units.

Local Extender Cycle – unplugging the Local Extender unit from the host computer, and plugging it back in.

Power Cycle – power off a unit, and powering it back on. A power cycle may apply to an extender module, USB device, or a host computer.

Remote Extender Cycle – unplugging the remote extender from the power source, and plugging it back in. On some systems this may be the same as a Link Cycle.

REX – Remote Extender module. The module that is connected to the USB device(s).

Suspend Cycle – Allowing a host computer to suspend the USB bus, ports, and then forcing the host computer to bring the USB bus or ports out of the suspend state.

USB – Universal Serial Bus. Communication standard between devices and computers.

UTP – Unshielded Twisted Pair. CatX cabling with no shielding against electromagnetic interference.

4. Notes

Because of transmission delays, and other aspects inherent to USB extension, some device and host controller combination may not work as expected in certain situations, such as during power cycles, or when bandwidth requirements increase.

If you have concerns, questions or comments about specific devices, controllers, operating systems or these release notes, please contact Icron Technologies Customer Support at <http://icron.com/support> in advance so we are better able to assist you.