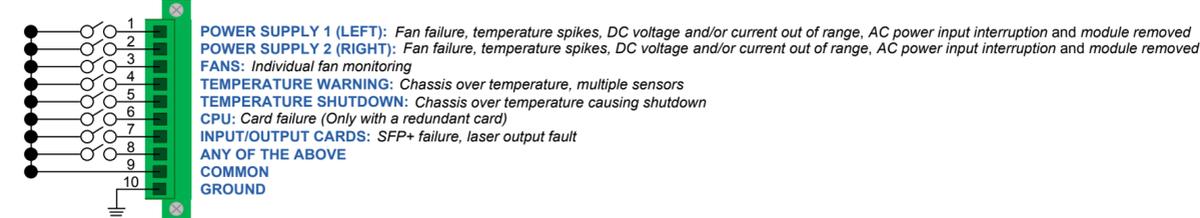# QUICK-START GUIDE

As used with *Thinklogical's* **Velocitydvi Video Extension System-3** and the **Velocityrgb Video Extension System-9**
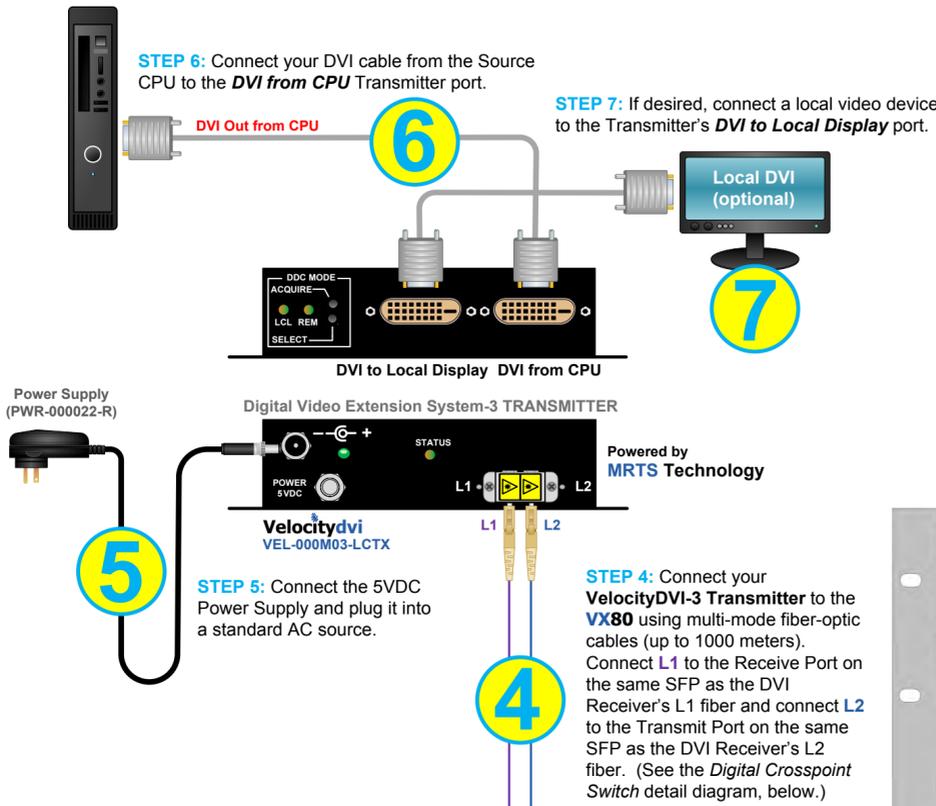
router VX80
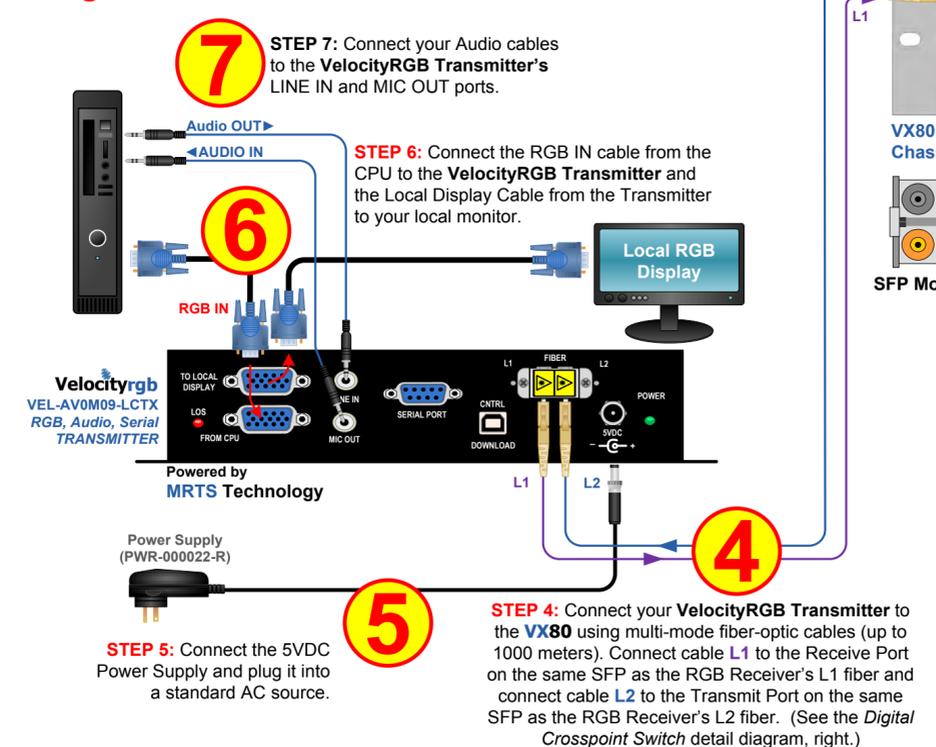### KVM Matrix Switch
Powered by MRTS Technology

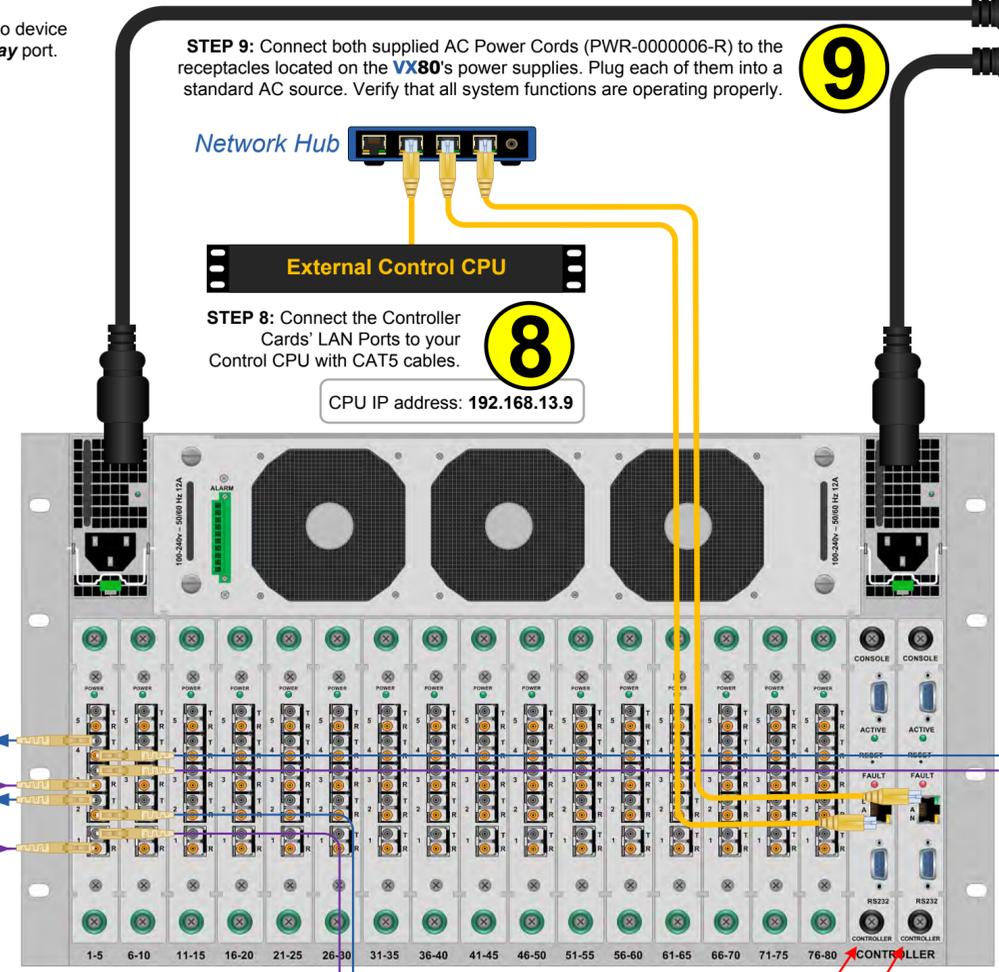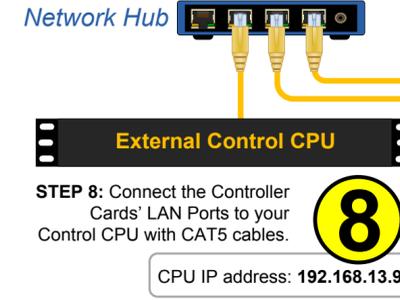**The VX80 Router Critical Hardware Alarms:** (Located at the top, left rear of the unit.)

POWER SUPPLY 1 (LEFT): *Fan failure, temperature spikes, DC voltage and/or current out of range, AC power input interruption and module removed*
POWER SUPPLY 2 (RIGHT): *Fan failure, temperature spikes, DC voltage and/or current out of range, AC power input interruption and module removed*
FANS: *Individual fan monitoring*
TEMPERATURE WARNING: *Chassis over temperature, multiple sensors*
TEMPERATURE SHUTDOWN: *Chassis over temperature causing shutdown*
CPU: *Card failure (Only with a redundant card)*
INPUT/OUTPUT CARDS: *SFP+ failure, laser output fault*
ANY OF THE ABOVE
COMMON
GROUND

Single-Head DVI Source

STEP 6: Connect your DVI cable from the Source CPU to the **DVI from CPU** Transmitter port.

STEP 7: If desired, connect a local video device to the Transmitter's **DVI to Local Display** port.

DVI Out from CPU

6

Local DVI (optional)

7

DDC MODE
ACQUIRE
LCL REM
SELECT

DVI to Local Display   DVI from CPU

Digital Video Extension System-3 TRANSMITTER

Power Supply (PWR-000022-R)

POWER 5VDC   STATUS   L1   L2

Velocitydvi
VEL-000M03-LCTX

Powered by MRTS Technology

5

STEP 5: Connect the 5VDC Power Supply and plug it into a standard AC source.

STEP 4: Connect your **VelocityDVI-3 Transmitter** to the **VX80** using multi-mode fiber-optic cables (up to 1000 meters). Connect **L1** to the Receive Port on the same SFP as the DVI Receiver's L1 fiber and connect **L2** to the Transmit Port on the same SFP as the DVI Receiver's L2 fiber. (See the *Digital Crosspoint Switch* detail diagram, below.)

4

L2
L1

L1: Video and Data Tx to Rx
L2: Data Rx to Tx

L2
L1

Single Head RGB/Audio Source

7 **STEP 7:** Connect your Audio cables to the **VelocityRGB Transmitter's** LINE IN and MIC OUT ports.

Audio OUT
AUDIO IN

STEP 6: Connect the RGB IN cable from the CPU to the **VelocityRGB Transmitter** and the Local Display Cable from the Transmitter to your local monitor.

6

Local RGB Display

RGB IN

Velocityrgb
VEL-AV0M09-LCTX
RGB, Audio, Serial
TRANSMITTER

TO LOCAL DISPLAY   LINE IN   SERIAL PORT   CNTRL   FIBER   L2   POWER
LOS   RGB IN FROM CPU   MIC OUT   DOWNLOAD   L1   5VDC

Powered by MRTS Technology

L1   L2

Power Supply (PWR-000022-R)

5 **STEP 5:** Connect the 5VDC Power Supply and plug it into a standard AC source.

4 **STEP 4:** Connect your **VelocityRGB Transmitter** to the **VX80** using multi-mode fiber-optic cables (up to 1000 meters). Connect cable **L1** to the Receive Port on the same SFP as the RGB Receiver's L1 fiber and connect cable **L2** to the Transmit Port on the same SFP as the RGB Receiver's L2 fiber. (See the *Digital Crosspoint Switch* detail diagram, right.)
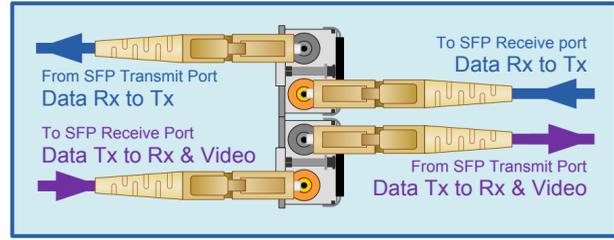
STEP 9: Connect both supplied AC Power Cords (PWR-0000006-R) to the receptacles located on the **VX80**'s power supplies. Plug each of them into a standard AC source. Verify that all system functions are operating properly.

9

Network Hub

External Control CPU

STEP 8: Connect the Controller Cards' LAN Ports to your Control CPU with CAT5 cables.

8

CPU IP address: **192.168.13.9**

Thinklogical's™ VX80 KVM Matrix Switch features redundant Power Supplies and Controller Modules for uninterrupted performance, even during system reconfiguration, updates or debug. The VX80 remains fully functional with only one Power Supply installed or with one Controller activated.

NOTE: *When using a single Controller, the module on the left (Primary) must be used.* ✱

ALARM

100-240v~ 50/60 Hz 12A   100-240v~ 50/60 Hz 12A

CONSOLE   CONSOLE
ACTIVE   ACTIVE
FAULT   FAULT
RS232   RS232
CONTROLLER   CONTROLLER
A   B

1-5 6-10 11-15 16-20 21-25 26-30 31-35 36-40 41-45 46-50 51-55 56-60 61-65 66-70 71-75 76-80

VX80 Router KVM Matrix Switch
Chassis, 6 Rack Units, 400 Watts

Transmit Port (output)

Receive Port (input)

SFP Module

✱ **Primary Controller Card**
(IP address: 192:168:13:15)
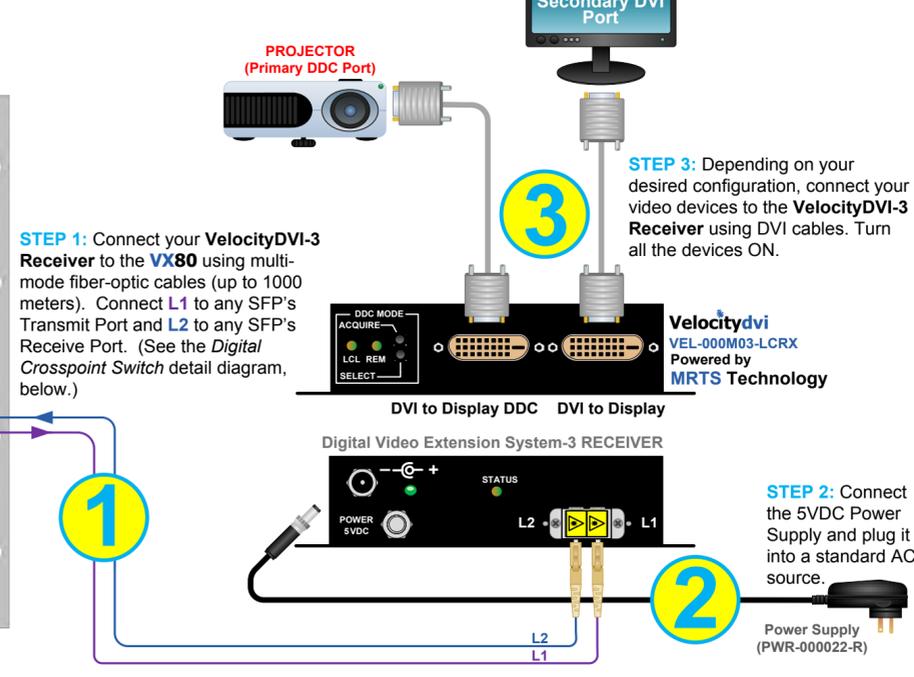**Optional Secondary Controller Card**
(IP address: 192:168:13:16)

Complete steps 1 through 9 to connect your *Thinklogical™* Velocity-3 DVI and your Velocity-9 RGB Fiber-Optic Video Extension Systems through the VX80 KVM Matrix Switch. Follow the same steps to connect any additional devices. Refer to the Digital Crosspoint Switch diagram below to help you determine where to connect your fibers.

To SFP Receive port
Data Rx to Tx
From SFP Transmit Port
Data Rx to Tx
To SFP Receive Port
Data Tx to Rx & Video
From SFP Transmit Port
Data Tx to Rx & Video

Single-Head DVI Destination

Optional Secondary DVI Port

PROJECTOR (Primary DDC Port)

STEP 3: Depending on your desired configuration, connect your video devices to the **VelocityDVI-3 Receiver** using DVI cables. Turn all the devices ON.

3

STEP 1: Connect your **VelocityDVI-3 Receiver** to the **VX80** using multi-mode fiber-optic cables (up to 1000 meters). Connect **L1** to any SFP's Transmit Port and **L2** to any SFP's Receive Port. (See the *Digital Crosspoint Switch* detail diagram, below.)

DDC MODE
ACQUIRE
LCL REM
SELECT

Velocitydvi
VEL-000M03-LCRX
Powered by MRTS Technology

DVI to Display DDC   DVI to Display

Digital Video Extension System-3 RECEIVER

POWER 5VDC   STATUS   L2   L1

1

STEP 2: Connect the 5VDC Power Supply and plug it into a standard AC source.

2

L2
L1

Power Supply (PWR-000022-R)

RGB Video & Audio Destinations

STEP 3: Connect your output devices (monitors, audio speakers, projector, etc.) to the **VelocityRGB Receiver** using standard cables. Turn all the devices ON.

STEP 1: Connect your **VelocityRGB Receiver** to the **VX80** using multi-mode fiber-optic cables (up to 1000 meters). Connect **L1** to any Transmit Port and **L2** to any Receive Port. (See the *Digital Crosspoint Switch* detail diagram, left.)

1

3

VGA 2

VGA 1 (PRIMARY)

AUDIO
VGA 2 (SECONDARY)
AUDIO

Velocityrgb
VEL-AV0M09-LCRX
RGB, Audio, Serial
RECEIVER

VGA 2   LINE OUT   SERIAL PORT   CNTRL   FIBER   L1   POWER
LOS   VGA 1   MIC IN   DOWNLOAD   L2   5VDC

Powered by MRTS Technology

L2   L1

Power Supply (PWR-000022-R)

2 **STEP 2:** Connect the 5VDC Power Supply and plug it into a standard AC source.

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