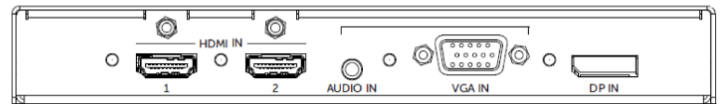
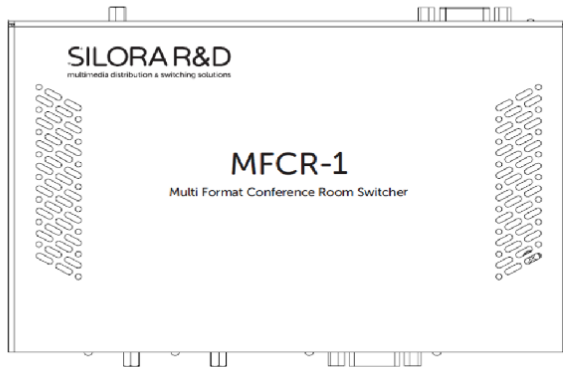
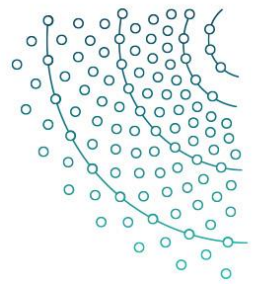


Multi Format Conference Room switcher

MFCR-1







Introduction

The MFCR-1 is the perfect solution for conference room, huddle room, Podium etc. Easily connect two HDMI sources, VGA source with analog audio and DP++ source to one to HDMI (Ultra HD) with de-embedded analog audio output.

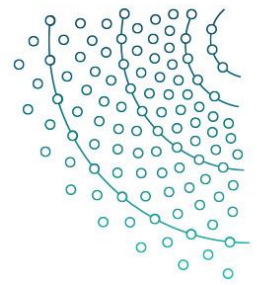
The product includes:

- Fully automated and Programmable Priority Port
- pass through EDID
- RS232 for external control and FW Upgrade
- Mount brackets
- Optional external switching button

1. Connections:

Type	Inputs	Outputs
HDMI	2	1
DisplayPort++	1	-
VGA	1	-
Mini PL – Audio In	1	-
Mini PL – Audio Out	-	1
DB9 – Female	1	-
Mini PL – Switcher *	1	-
2mm DC Jack Non-locking "5VDC"	1	-

* Optional



2. Features

- HDMI/DP++ inputs up to 4K@60Hz 4:2:0 / 4K@30Hz 4:4:4
- HDMI output up to 4K@60Hz 4:2:0/ 4K@30Hz 4:4:4
- VGA input up to 1920x1200
- Analog audio in - unbalanced inputs > 75 dB / 2.5 RMS max (only for VGA)
- De-Embedded audio –Mini PL jack > 75dB / 2.5 RMS max (Extracted from Input)
- HDCP compliant
- Including mount brackets
- External Control Connector – DB9 RS232

Auto-Input switching:

- Switch to new active video source input
- Return to last source on disconnection of active input
- Priority port – Can be assigned to any input (optional)

External manual Switching:

- Via Switching button (optional)

Additional Details:

- Meet HDMI LLC certification guidelines
- Adhere to HDCP rules
- Certify CE and FCC Class A guidelines
- Meet RoHS guidelines
- Allow HDCP reporting management, Auto function preferred
- ESD – Designed protection: +/- 12kV (air) and +/- 8kV (contact)
- Device operates successfully @ 0-40 °C ambient temperature of equipment
- Storage temp is between -4°F to 140°F (-20°C to 60°C)
- Firmware upgradeable via RS232
- 5v Power adaptor
- Audio extraction from HDMI (**Up to PCM 2.0**)
- Dimensions (mm) – Length -117.9 / Width – 183.5 / Height – 25.4



1. User Interface

1.1. CLI Commands

Any Standard Terminal Emulator may support connection from PC to the Device:

- Tera Term
- Hyper Terminal

Bits per second: 115200

Data bits: 8

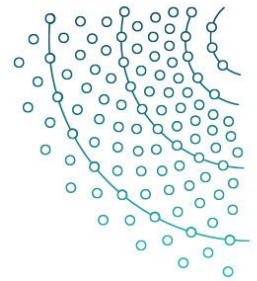
Parity: None

Stop bits: 1

Flow control: None

The User Interface supports the following commands:

Command	Parameters	Action	Example
DUMPREG	None	Dump Sil9575 Registers	DUMPREG
RESET	None	Reset the System	RESET
FACTORY	None	Factory default and reset	FACTORY
UPGRADE	None	Start FW Upgrade process	UPGRADE
NEXT	None	Next Input (Button Pressed)	NEXT
PORT	[PORT #] (1 – 4)	Switch to selected port	PORT 1
TVTIME	[TIME] (0=NEVER, 1 – 99 = TIMEOUT)	TV shutdown Timeout	TVTIME 20
SINK	[PARAM] (ON=TV On, OFF=TV Off)	Turn TV ON/OFF	SINK ON
BUTTON	[PARAM] (ON=Button On , OFF=Ignore Button)	Read/Ignore Button Switch	BUTTON OFF
AUTO	[PARAM] (ON=Auto Switch, OFF=Manual)	Set Switch Automation On/Off	AUTO ON
PRIORITY	[PORT #] (0=No Priority, 1 – 4 = Port#)	Priority Port Logic	PRIORITY 2



1.2. Default Settings

Parameters after FACTORY command:

Command	Parameters	Action
BUTTON	ON	Read button switch
AUTO	ON	Switch Automation On
LAST PORT	PORT 1	System will switch to this port after power up
TVTIME	10 Minutes	TV shutdown Timeout
PRIORITY	0	Priority Port Logic