

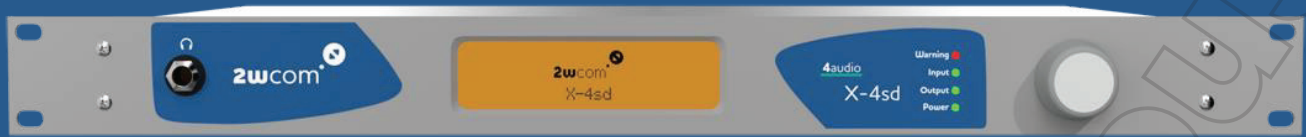
# X-4sd

## Audio/MPX switch/splitter

Professional switch and splitter for digital audio and MPX



# X-4sd – Audio/XLR switch/splitter



## General

- ▶ The perfect companion for redundant audio and MPX streaming
- ▶ Four stereo channel splitter and switch selectable in one device
- ▶ Four digital inputs via female XLR-3
- ▶ Four digital outputs via male XLR-3
- ▶ Bypass relay for continuous operation, even after power failure
- ▶ Dual power supplies (230 VAC and/or -48VDC, Internal or Hot-swap)
- ▶ Remote control via IP (SNMP/WebGUI) and GPIO

## Splitter

- ▶ Up to four outputs
- ▶ Active powered distribution amplifier for each output
- ▶ Manual input selection
- ▶ Passive bypass on channel 1

## Switch

- ▶ Up to two independent audio switches
- ▶ Configurable number of switching inputs
- ▶ Combinable with splitter
- ▶ Adjustable detection of audio or MPX presents and automatic switch over
- ▶ Passive bypass on channel 1

## Control

- ▶ Remote control via GPIO, WebGUI or SNMP
- ▶ Multiple access levels (Read-only, Manager & Administrator)

## Monitoring

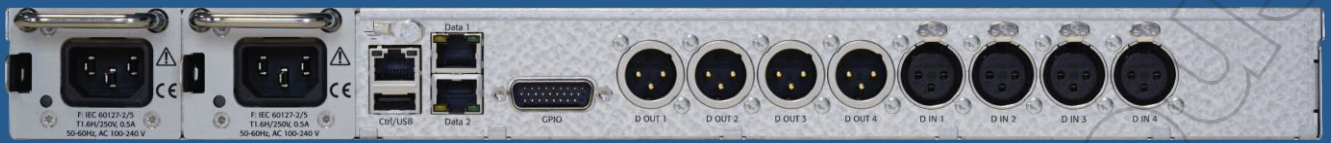
- ▶ Headphone output
- ▶ Quality parameters via SNMP/WebGUI and GPIO

## Backup / advanced redundancy management

- ▶ Passive loop through relays available
- ▶ Optional: Redundant power supply 230 VAC or -48 VDC



## Technical details 1/2



### Interfaces

#### Performance

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| Digital in         | 4x AES/EBU, 110 $\Omega$ bal., integrated XLR       |
| Digital out        | 4x AES/EBU, 110 $\Omega$ bal., integrated XLR       |
| Amplifier          | 3-way AES/EBU stereo digital distribution amplifier |
| Headphone (out)    | L/R, < 10 $\Omega$ , 6,3 mm                         |
| Dynamic range      | 16 Bit, > 89 dB<br>24 Bit, > 130 dB                 |
| Sample rates       | 16 kHz...192 kHz                                    |
| Insertion Loss     | <0.1 dB                                             |
| Impedance          | 110 $\Omega$ $\pm$ 2%                               |
| Output Insulation  | >40 dB                                              |
| Max. voltage level | 10 Vpp                                              |

#### Ethernet

|           |                                      |
|-----------|--------------------------------------|
| Data      | Controlling and setup functions      |
| Connector | 3x RJ45                              |
| Type      | Auto switching<br>10/100/1000 BASE-T |

#### Contact closure

|         |                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------|
| Inputs  | 8 inputs<br>26 pole sub-D male                                                                                           |
| Outputs | 7+1 floating relays<br>7 relays SPST (from A)<br>1 relay SPDT (from C)<br>DC: max. 30 V, 1 A, 10 W<br>26 pole sub-D male |

### Control & monitor

#### Ethernet

|                |                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------|
| User interface | Integrated WebGUI, LCD display                                                                              |
| Data           | Control and setup functions                                                                                 |
| Optional       | Private data, MPEG ancillary data (IRT)                                                                     |
| USB            | USB 2.0 interface for service, configuration and firmware updates                                           |
| Protocol       | 2wcom NMS, Telnet, HTTPS, SNMP, UDP, Reliable Transport, SFTP, IGMP, ICMP, NTP, DHCP, SNMP, SSH, PTPv2, TCP |

#### Front panel

|            |                               |
|------------|-------------------------------|
| LCDisplay  | Graphical, 264x64 pixel       |
| Jog wheel  | Impulse, enter button         |
| 4 Duo LEDs | Power, input, output, warning |

# Technical Details 2/2

## General data

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Power consumption     | <20W                                                                  |
| Case dimensions       | 19", 1 HU,<br>Depth: 310 mm,<br>Width: 424 mm,<br>Front panel: 484 mm |
| Weight                | < 5 kg                                                                |
| Material              | Steel plate<br>(aluminium-zinc coated)                                |
| Operating temp. range | 0...+45°C                                                             |
| Storage temp. range   | -40...+70°C                                                           |
| Languages             | English                                                               |

## Power supply

|                    |                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------|
| Standard           | 1x internal, 90...260 VAC,<br>47...63 Hz,<br>1x power port<br>(EU Type- socket)              |
| Optional version 1 | Two internal redundant<br>power supplies (230 VAC<br>or -48 VDC),<br>auto switchover         |
| Optional version 2 | Two hot swappable<br>redundant power<br>supplies (230 VAC or<br>-48 VDC), auto<br>switchover |

## Available models

|        |                |
|--------|----------------|
| Basic  | X-4sd splitter |
| Option | X-4sd switch   |
| Option | MPX 192kHz     |