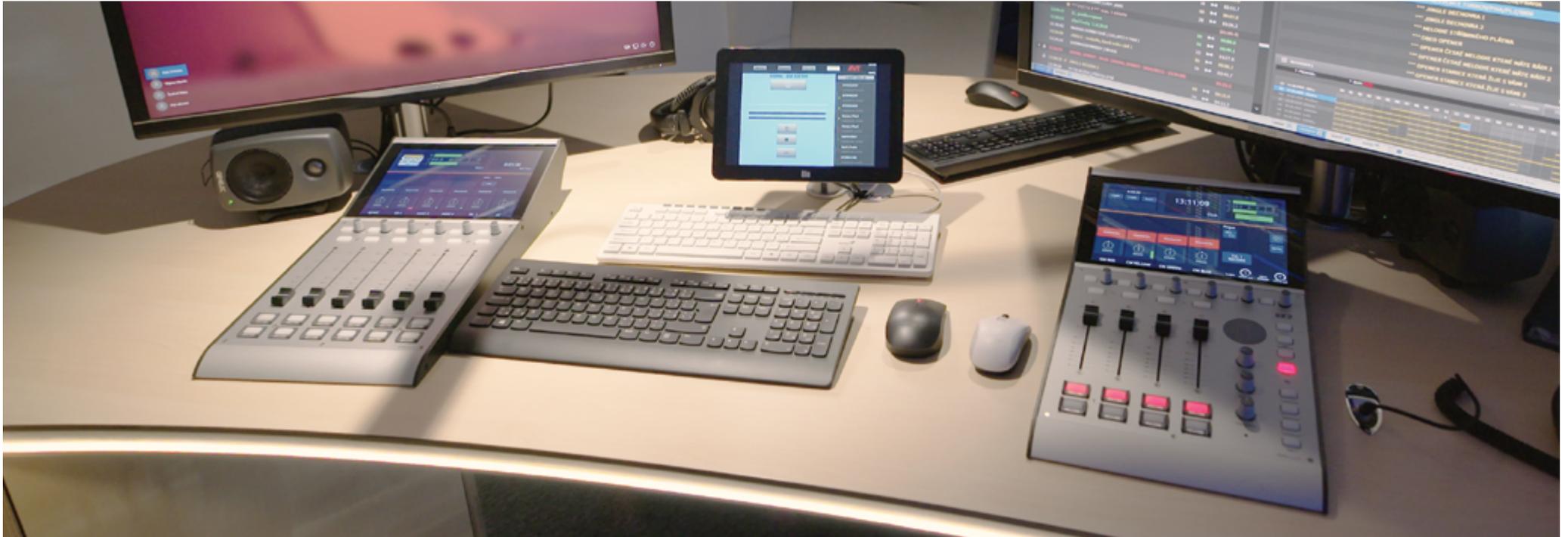


SX2 - THE COMPACT MIXER





SMART MODULES FOR ALL APPLICATIONS

The SX2 is a modular mixing console for radio and other broadcast applications. Price-optimised, it is ideal for on-air studios, audio workstations and smaller OB vans.

Console sizes are adaptive and range from 4 to 16 faders. The central module (52-5614) has four faders and a central section for monitoring, talkback and central controls. The fader modules (52-5620) feature 6 faders. All faders are motorised and allow a second layer for up to 16 channels.

Both modules feature a 10.1 inch multi-touch display for faders and central control. All SX2 units are separate table-top devices and can be chained for a single mixing desk.

The central control module provides the most important audio I/Os. A microphone input and a headphones output are included and you can also connect your loudspeakers directly to this unit, reducing rack space and cabling.

The SX2 is based on the same Series 52 firmware as MX or RX2 consoles. It can be configured with the SX2Config software, a simplified version of Toolbox9.

SX2 features can be extended simply by adding optional license codes to the DSP core. This allows extra faders, busses and clean feeds. It also supports functions like loudness metering, profanity delay as well as talkback to other DHD mixers and our browser-based Views and Assist App.

HIGH-PERFORMANCE 40-BIT FLOATING-POINT DSP FOR:

- 16 channels, mono or stereo, each with 3-band EQ (fully parametric), subsonic filter, dynamics, limiter, delay
- 16 stereo PGM busses, Aux busses, clean feeds and PFL
- 6 clean feeds (mix-minus, mono or stereo)
- 4 monitoring busses for control room and studio
- flexible talkback, logic and GPIO system
- integrated routing matrix
- internal tone generator

FADER MODULE

52-5620

TFT CONTROLS FOR EACH CHANNEL

- channel name, UTF8-supported
- PGM and off-air selection
- channel input meter
- gain settings

FLEXIBLE FADER ENCODERS

- function according to TFT content
- control of gain settings

PROFESSIONAL HIGH-GRADE 100-MM MOTOR FADERS

FLEXIBLE PUSHBUTTONS IN EACH CHANNEL

- silent, multicolour (RGB)
- individual button functions for channel e.g., ON, OFF, PFL, Access, Layer or Talk
- buttons below fader have a label area for clear function naming



CENTRAL MODULE

52-5614

TFT CONTROLS FOR CENTRAL FUNCTIONS

- main control
- metering
- EQ and dynamics
- input channel settings
- snapshots

FLEXIBLE CENTRAL ENCODERS

- function according to TFT content
- volume control of guest headphones
- monitor selectors

AMBIENT-LIGHT SENSOR FOR AUTOMATIC CONSOLE BRIGHTNESS CONTROL

PRE-LISTENING & TALKBACK SPEAKER WITH BUILT-IN AMP

SILENT, MULTICOLOUR (RGB) PUSH BUTTONS

- monitoring section, expanded by touchdisplay selector
- GPIO push buttons
- talkback push buttons

PROFESSIONAL HIGH-GRADE VOLUME POTENTIOMETERS

TALKBACK MICROPHONE WITH BUILT-IN PREAMP

CORE OPTIONS

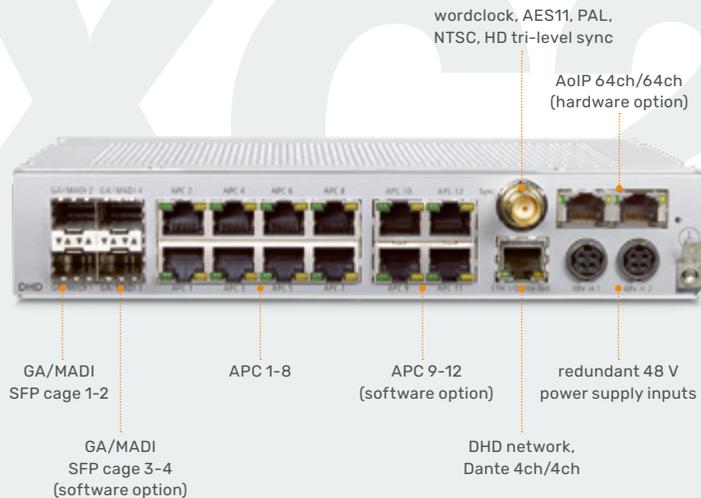
XC2 CORE

52-7424

The 10-fader SX2 bundles include a 52-7424 XC2 Core. These are the bundles with the greatest possible expandability. With 8 APC ports to connect I/O boxes and control modules, a vast number of combinations are available. The built-in 4-channel Dante interface opens up the possibility for monitoring applications and talkback to another studio via your IP network.

You can expand your bundle to 16 faders and still connect 5 I/O modules, a Dante interface and MADI. Our wide range of I/O options allows you to build your mixer exactly according to your studio requirements.

With the 52-1950 Extended Feature Upgrade license, the optional APC and GA/MADI ports can be activated for even more I/O module options.



XS2 I/O CORE

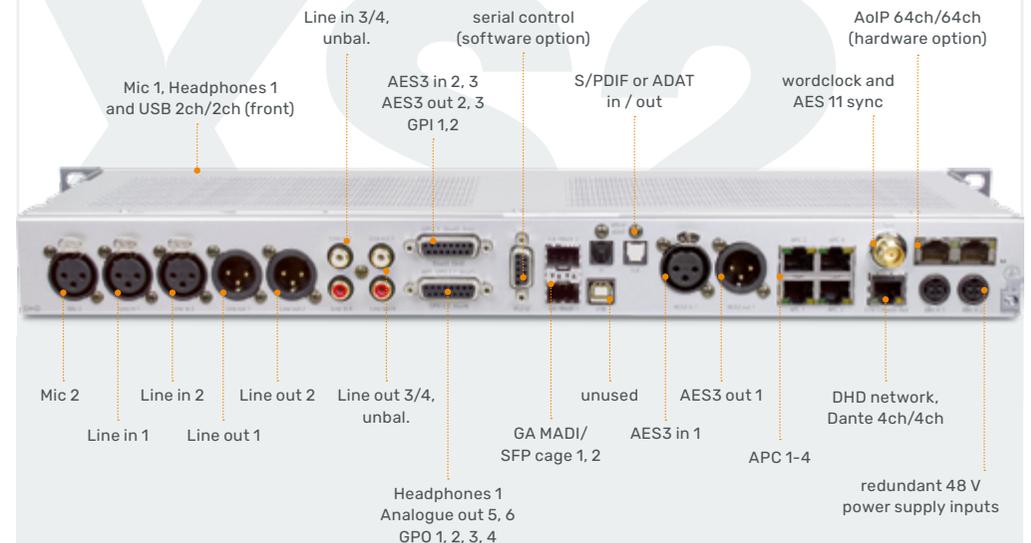
52-1830

The 52/XS2 I/O Core (52-1830) combines I/O interfaces and DSP processing for up to 16 faders in one housing. It has all the audio interfaces that are required for journalist desks or edit booths. You can mount it underneath your desk or into a rack, using only 1 rack unit.

Easy connectivity is the strong point of the 52/XS2 I/O Core. Microphones, headphones, line and AES3 signals can be connected to XLR ports. Also USB audio, Toslink connectors for ADAT or

S/PDIF and a 4ch/4ch Dante interface are included. Multi-channel options for MADI, Gigabit Audio and AES67 are available.

Our smallest SX2 bundle (52-1988) is a budget-friendly package and includes this versatile I/O core and the SX2 central module with 4 faders (52-5614). It is perfect for a small radio production studio or as starting point for adding more modules from our product range to create a bigger and more customised system.



I/O OPTIONS AND SX2 SPECIFICATIONS



XC DIGITAL I/O MODULE
52-7112

- AES3/EBU/SPDIF inputs, 24 bit,
- input sample rate converters
- 4 AES3/EBU/SPDIF outputs, 24 bit,
- output sample rate converters
- 4 general-purpose inputs, isolated
- 4 general-purpose outputs, isolated



XC EMBEDDER/DE-EMBEDDER
52-7172

- 2x 3G/HD/SD SDI de-embedders and
- 2x 3G/HD/SD SDI embedders, each with:
 - in, 2x loop through, out (BNC connectors)
 - 2 selectable audio groups (1/2 or 3/4),
- 8 channels, SRCs
- 4 general-purpose inputs, isolated

MORE MODULES ON
DHD-AUDIO.COM/IOMODULES



XC MIC/HEADPHONE MODULE
52-7235

- 4 mic/line inputs with remote preamp
0...63 dB, 18 dBu maximum
- 48 V phantom power, switchable
- 4 stereo headphone amp outputs
- 4 general-purpose inputs, isolated
- 8 general-purpose outputs, isolated
- 4 analogue control inputs



XS MULTI I/O MODULE
52-1335

- 2 mic/line inputs, preamp, 48 V
- 2 stereo headphone outputs
- 8 analogue line inputs, 24 dBu maximum,
- electronically balanced
- 8 analogue line outputs, 24 dBu maximum,
- electronically balanced
- 3 AES3/EBU inputs, 1 SPDIF input
- 2 AES3/EBU outputs, 1 SPDIF output
- 2 USB audio IF, 10 GPI, 10 GPO, 2 ACI

MIC/LINE INPUT SPECIFICATIONS

Input sensitivity	-77 dBu ... 18 dBu
Gain setting	analogue preamp 0 dB, 10 dB ... 63 dB in steps of 1 dB, -20 ... +20 dB digital gain in steps of 1 dB
Frequency response	< 0.03 dB (20 Hz ... 20 kHz)
Dynamic range	> 111 dB (A-weighted)
THD+N	< -82 dB / 0.008% (-1 dBFS, +17 dBu, 0 dB analogue / digital gain)
Equivalent input noise	< -127 dBu (150 ohm source), < -126 dBu (200 ohm source)
Phantom power 48 V	switchable per input channel, unloaded input 48 V ±10%
Max. input level	18 dBu (balanced)
Converter technology	24 bit, oversampling sigma-delta

ANALOGUE LINE INPUT SPECIFICATIONS

Max. input level	24 dBu (balanced)
Frequency response	< 0.05 dB (20 Hz ... 20 kHz)
THD+N	< -85 dB / 0.006% (-1 dBFS, +23 dBu)
Dynamic range	> 98 dB (A-weighted)
Converter technology	24 bit, oversampling sigma-delta

ANALOGUE LINE OUTPUT SPECIFICATIONS

Max. output level (phones, single-ended)	24 dBu (balanced)
Minimum load (outputs short-circuit protected)	600 ohm
Frequency response	< 0.1 dB (20 Hz ... 20 kHz)
THD+N	< -84 dB / 0.006% (-1 dBFS, +23 dBu)
Dynamic range	> 104 dB (A-weighted)
Converter technology	24 bit, oversampling sigma-delta

DIGITAL INPUT/OUTPUT SPECIFICATIONS

Input/output impedance	110 ohm (PDIF) or 75 ohm (S/EBU3/AES)
Input sensitivity	> 200 mV
Sample rate converters (SRC)	inputs and outputs (switchable, slaved to related input)
Input SRC sampling frequency range	28 kHz ... 108 kHz
Output SRC sampling frequency range	28 kHz ... 54 kHz
Dynamic range (SRC off)	144 dB (24-bit digital audio)
Output level	3.4 V (into 110 ohm load)
Output dither	off, 16, 20 bit (switchable by configuration software)