

XD3, XC3 MIXING, ROUTING AND I/O SYSTEM



CORE OPTIONS

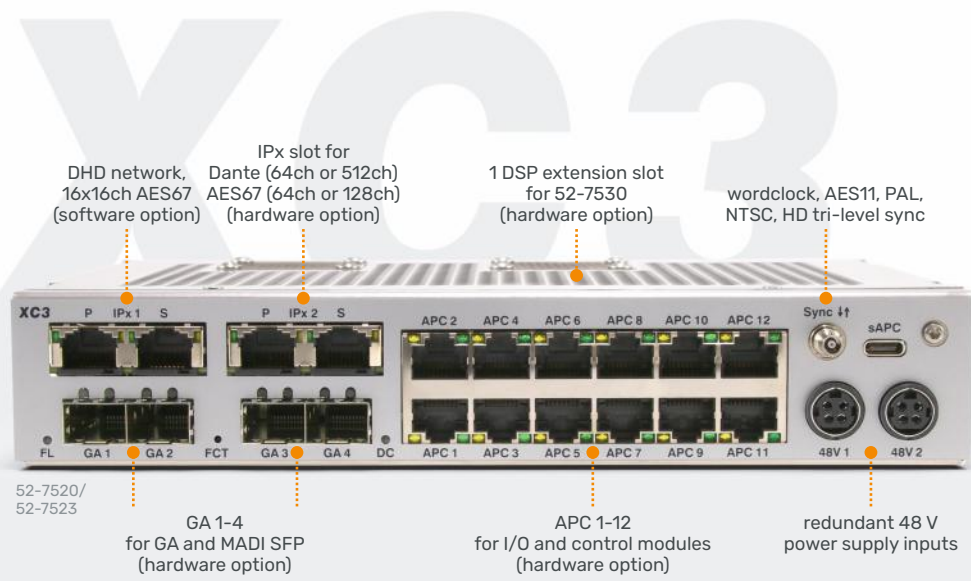
XC3 IP CORE

52-7520, 52-7523

The XC3 IP Core, in its various configurations, can manage any task in your broadcast studio, ranging from small DJ-operated panels with 12 faders to large control room desks with up to 48 faders. You can increase the number of channels, logic functions and peak meters or add delay at any time by adding software licences to a basic core (52-7523). Up to 72 stereo busses including 48 clean-feeds can be supported by adding a second DSP module.

IPx expansion modules can be added to accommodate up to 128 channels of AES67/RAVENNA and up to 512 Dante channels.

With the Toolbox configuration software, all your ideas and requirements for certain functions will be defined during a configuration process typically done by DHD or a local representative. If you need to change the mixer configuration later, just use the Toolbox software again.



XD3 IP CORE + ROUTER

52-7550/52-7554 + 52-7540

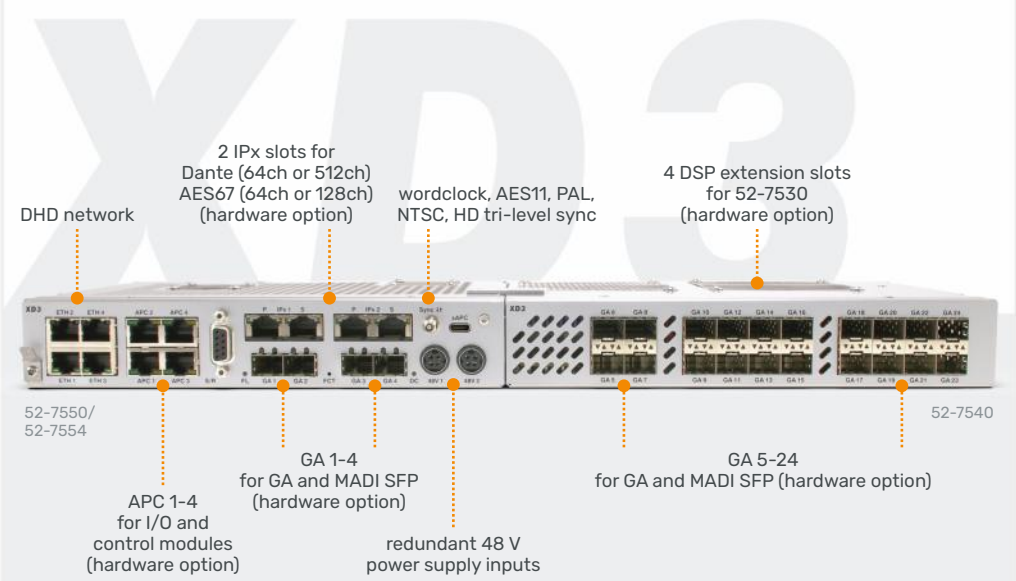
The XD3 is a high-performance IP Core for use with large mixing and routing systems. It allows fully redundant configuration and can accommodate an optional router module. Up to 96 stereo faders, 126 stereo busses and 24 Gigabit Ethernet audio ports are supported.

With two IPx expansion slots, the XD3 IP core can directly integrate different Audio-over-IP technologies in the core such as two 128 x 128 AES67/RAVENNA IPx modules, two 512 x 512

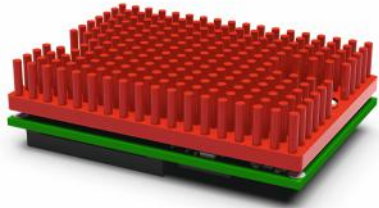
IPx Dante interfaces or a combination of them.

The XD3 IP core and XC3 IP core come with Firmware 10 which offers new capabilities including enhanced network security and unified user management based on web apps.

A more powerful quad-core controller version (52-7554) of the XD3 IP core is available as well, allowing Thimeo Audio Technology's Stereo Tool to run directly on the DHD core.



MODULAR POWER



XD3/XC3 DSP Extension Module
52-7530

Each XC3/XD3 IP Core has one DSP processor already included. The 52-7530 DSP extension module provides 40-bit floating-point processing for additional fader channels, fixed processing, summing operations and additional loudness meters.

One DSP extension module can be added to the XC3 IP Core (52-7520) for more processing power.

By extending the XD3 IP Core (52-7550/52-7554) with the optional XD3 Router module (52-7540), up to four additional 52-7530 DSP modules can be added to the device to support a maximum number of faders, busses and delay. Additional routing capacities are provided to allow the use of up to 24 Gigabit Audio ports in XD3 IP cores.



XC3 IPx Dante Audio 512x512
52-7585

- IPx module for XC3/XD3 cores and concentrators
- compatible with Dante-enabled devices or PCs with Dante Virtual Soundcards
- 512 in and 512 out., 128 streams maximum
- 2 Gigabit ethernet for Dante with network redundancy

XC3 IPx Dante Audio 64x64
52-7580

- same features as 52-7585 but with 64 in and 64 out, 32 streams, SRC



XC3 IPx AES67 RAVENNA
52-7567

- IPx module for XC3/XD3 cores and concentrators
- compatible with devices or virtual soundcards that are enabled for AES67 and RAVENNA
- 64channels in/out (32 streams in/out)
- software options for:
 - Seamless Protection Switching (SPS) or channel/stream extension (128 ch/64 streams) - 52-8541
 - multicast GPIOs - 52-8542
 - SNMP - 52-8591

96 FADERS stereo

XD3 IP CORE + ROUTER
(52-7550/52-7554 + 52-7540)
5 DSPs

126 summing busses
(PGM, AUX, N-1, PFL)
96 mix-minus busses
64x64 talkback matrix included

LARGE ROUTER AND
CONSOLE WITH
NUMEROUS I/OS

64 FADERS stereo

XD3 IP CORE + ROUTER
(52-7550/52-7554 + 52-7540)
3 DSPs

96 summing busses
(PGM, AUX, N-1, PFL)
64 mix-minus busses
full DSP-Core redundancy as option

LARGE CONTROL ROOM
CONSOLE

48 FADERS stereo

XC3 IP CORE
(52-7520)
2 DSPs

72 summing busses
(PGM, AUX, N-1, PFL)
48 mix-minus busses
48 level meters

CONTROL ROOM
CONSOLE
AND SMALL ROUTER

24 FADERS stereo

XC3 IP CORE
(52-7520)
1 DSP

48 summing busses
(PGM, AUX, N-1, PFL)
24 mix-minus busses
4 virtual mixers

MEDIUM-SIZED CONSOLE
AND SMALL ROUTER

20 FADERS stereo

XC3 IP CORE
(52-7523)
1 DSP

16 summing busses
(PGM, AUX, N-1, PFL)
6 mix-minus busses
automix included

STANDARD CONSOLE

I/O OPTIONS



XC DIGITAL I/O MODULE

52-7112

- 4 AES3/EBU/SPDIF inputs, 24 bit, SRC
- 4 AES3/EBU/SPDIF outputs, 24 bit, SRC
- 4 GPI, 4 GPO, isolated



XC MIC/HEADPHONE MODULE

52-7235

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



XC3 CONCENTRATOR

52-7510

- extension unit for I/O and control modules
- 12 DHD APC RJ45 ports
- 2 IPx slots for AES67 or Dante
- 2 power in 48V, HD BNC sync. out
- 2 SFP slots for XC3 GA or MADI SFPs
- incl. 2 SFPs for connection to core, multi-mode LC



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 GPI, 4 GPO, isolated



XC ANALOGUE I/O MODULE

52-7224

- 4 analogue line inputs, 18 dBu/24 dBu maximum, electronically balanced, 24 bit
- 4 analogue line outputs, 18 dBu/24 dBu maximum, electronically balanced, 24 bit
- 4 GPI, 4 GPO, isolated



XC3 GIGABIT AUDIO SFP

52-7591 multi-mode, 52-7592 single-mode

- bidirectional audio exchange of 512 channels between two XC3/XD3 Cores
- DHD-licensed SFP module with LC connector

MORE MODULES ON
DHD-AUDIO.COM/IOMODULES

XC3 MADI SFP

52-7593 multi-mode, 52-7594 single-mode

- AES10 MADI SFP module for XC3 and XD3, LC
- 56 or 64 channels, bidirectional

XC3 CORE AUDIO NETWORK

52-8582

- bidirectional audio exchange of 48 channels between two XC3/XD3 Cores, multiple links are possible
- direct APC connection via standard CAT cables
- hardware-related license code