

Xynergi

media production centre



FAIRLIGHT

Xynergi

The essence

Delivering a perfect fusion of three elements: Technology, Applications and Human interface.

Introducing the Xynergi Media Production Centre; the most powerful, versatile and scalable media production system in the world today. Xynergi organises and delivers all the media processing tools needed for high-end audio production in a completely integrated system.

Xynergi Technology

Xynergi's modern CC-1 FPGA media engine effortlessly delivers unprecedented processing power with virtually zero latency. The technology is so powerful that 230 Hi Resolution audio channels can be processed concurrently, each with eight bands of EQ and three stages of dynamics by a single CC-1 card hosted in a Windows PC. In addition, the engine provides enough processing power to support a large format mixing system with access to 72 mix busses, 220 physical I/Os, a comprehensive monitoring system, a fully integrated 192 track DAW, on board HD/SD video and access to most popular 3rd party PlugIns. Not only is CC-1 more powerful than any other processing engine, it is also sonically superior with its ability to record at sampling frequencies up to 384 kHz and manipulate audio at 72bit floating point. An investment in Xynergi's FPGA technology is also an investment in future proof hardware design as many new features and capabilities can be delivered in software form without the need for an expensive hardware refit.

Crystal Core and our Environment

Size - reduced from a cabinet requiring two people to carry to a module that fits in a shirt pocket. **Power** - reduced from 600 watts to 12 watts. **Performance** - more features, more channels, more processing with lower latency and higher audio resolution. **Carbon Emission** - reduced from 800g per hour to 16g per hour. 98% reduction in HEAT emission. **Reliability** - less than 1% of the number of components to go wrong, plus reduced heat means even greater reliability.

Xynergi Control

Harnessing massive power under fast and responsive tactile control is an essential ingredient of the Xynergi experience. Xynergi's revolutionary new control interface literally puts multidimensional tactile control at the fingertips of the creative community. Not just another QWERTY keyboard in disguise, Xynergi's control surface has been purpose built for today's media creators. Unique to the system is the implementation of state of the art self-labelling key switches and the world's first 'on demand' QWERTY keyboard.

The real essence of the Xynergi controller lies in its ability to intelligently know what functions are required to support the operator's desired mode by presenting **ONLY** the functions relevant to the active mode whilst hiding those that aren't. The result is less keystrokes, more control and greater productivity.

Xynergi Software

Xynergi's software suite is optimised to harness the awesome power of the CC-1 hardware acceleration engine. By integrating all elements of the media creation process within one operating environment, Xynergi fuels user creativity and delivers unparalleled productivity. Xynergi manages digital audio recording and video capture direct to disk and includes a vast array of integrated editing and processing tools. It also builds an audio bridge to the vast community of 3rd party PlugIns by connecting to sound design applications through the VST and ReWire protocols. Xynergi is able to deliver sophisticated automated mixing and mastering in all widely used surround formats. When a project is complete, Xynergi manages its delivery to a wide variety of digital formats and electronic destinations. In short, by providing solutions at every stage of the media production process, the Xynergi software toolkit can build and deliver media projects from start to finish within a totally tapeless workflow.

Crystal Core Technology

Xynergi's revolutionary Crystal Core Engine (CC-1) is a PCIe card that can be installed into any compliant host PC operating under Windows. The CC-1 engine forms the basis of a variety of powerful systems, from simple low-cost recording/editing platforms to massive large format mixing consoles with integrated Hi Definition video. A single CC-1 engine can support up to 220 physical audio I/Os in either analog or digital and since CC-1 runs on a standard Windows PC, the system plugs seamlessly into virtually any existing IT infrastructure. However, no other PC hosted system provides the power and dedicated performance of the FPGA powered CC-1 engine. CC-1 has been designed with wide data links between engines, allowing the formation of massive systems, providing a level of scalability that far exceeds any other available acceleration technology.

FPGA Processing Engine

CC-1



Fairlight's SX-20 is a versatile "Sync I/O Toolbox", and is a standard component of any Xynergi system. The SX-20 includes two Mic/Instrument preamps plus two additional balanced analog inputs, twelve balanced analog outputs, four digital inputs and eight digital outputs. In addition, SX-20 includes powerful synchronisation and multi-machine 9-pin control, with Fairlight's industry leading precision and accuracy. If that isn't enough, SX-20 provides for Sync at any frame rate including HD Trilevel sync, video sync, wordclock, AES and LTC. The unit also generates LTC at any standard rate. When combined with CC-1, SX-20 provides all the capabilities required for a wide variety of audio recording, production and post production tasks.

Sync and I/O Toolkit

SX-20



Fairlight's optional SX-48 Signal Exchange extends the Xynergi platform with flexible and cost-effective I/O. Up to FOUR SX-48 units can be connected to a single CC-1 card via MAD1 providing up to 192 channels of discrete I/O per engine. SX-48 is designed to accommodate all standard sampling frequencies from 44.1kHz to 96 kHz. Fairlight's renowned I/O can be installed in eight channel modular blocks, allowing numerous combinations of up to six cards of analog and/or digital I/O to be mixed together in each SX-48 unit or added later if required. SX-48 locks to external sync at any frame rate and accepts HD Tri-level sync, video sync, wordclock or AES as references. Fairlight's Total Studio Connectivity Protocol (TSCP) allows intelligent management of all SX-48 I/O resources on the TSCP network.

Modular High Density Remote I/O

SX-48



Crystal Powered

- 230 Hi Resolution audio channels
- 8 bands of EQ on every channel
- 3 stages dynamics on every channel
- 12 auxiliary sends per channel
- 72 user definable mix busses
- Audio bridge to VST and Rewire
- Up to 220 physical I/Os per card
- Comprehensive monitor system
- Integrated Pyxis Track Video
- Less than 0.5ms processing latency



Optional Fader Sidecar

Each Xynergi system can be specified with up to two sidecars with twelve faders each. Each sidecar features touch sensitive motorised faders, encoders and switches, fader bank switches, channel status LEDs, OLED displays and joystick surround panner.

Xynergi

Media Production Centre

The Xynergi Media Production Centre delivers a combination of processor technology, software tools and tactile control interface which literally transcends the sum of its parts. Xynergi is ideally suited to audio businesses that are engaged in a variety of post production disciplines such as advertising, broadcasting, film production and music project recording.

The Xynergi Media Production Centre features the new Xynergi desktop controller which delivers a revolutionary new control paradigm and breakthrough in ergonomic flexibility. Featuring Fairlight's new self-labelling key switch technology; the Xynergi controller delivers a new standard for ease of use and operational speed and at the same time dramatically lowers the learning curve from system set-up to full production.

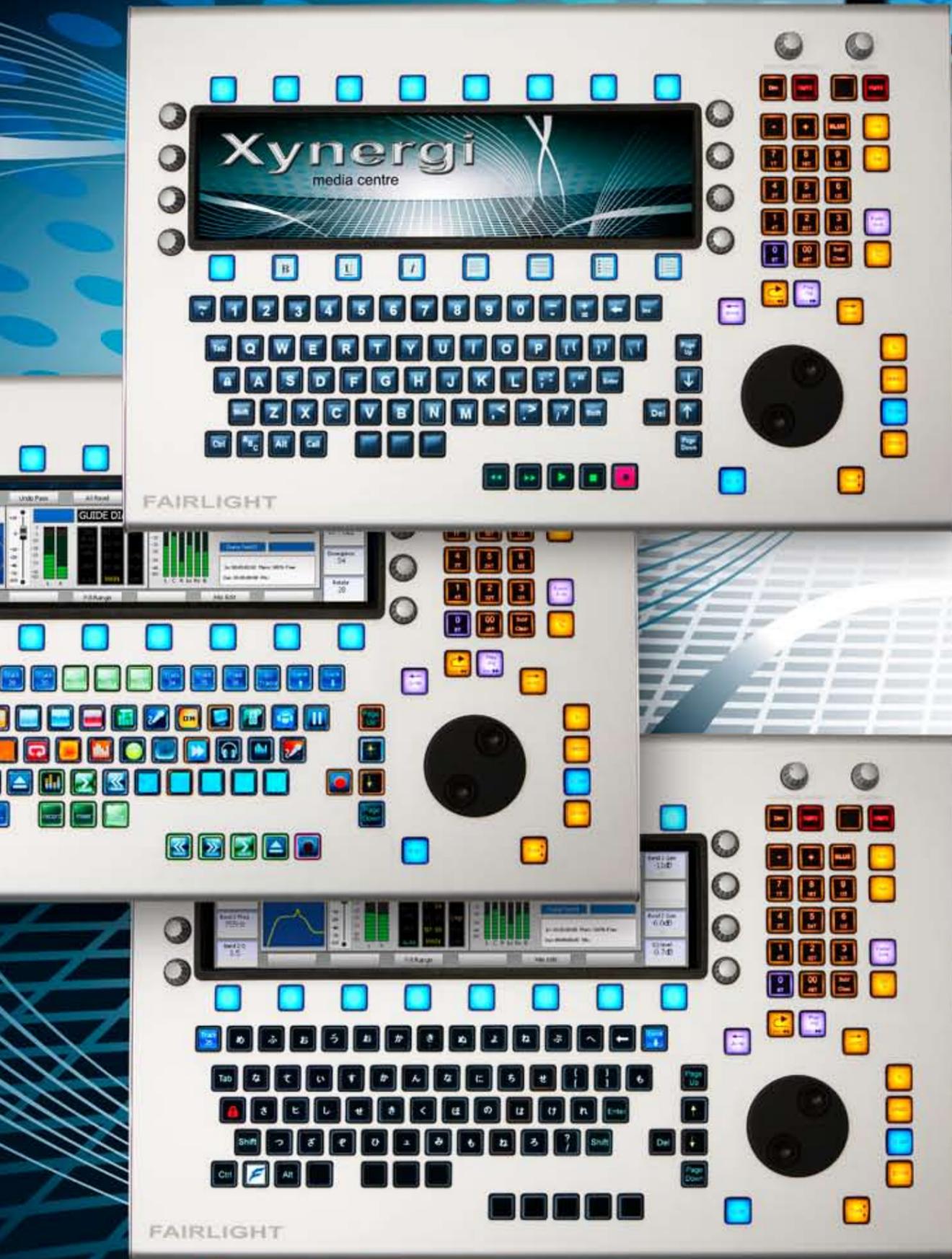
Powered by Fairlight's groundbreaking CC-1 technology, the Xynergi Media Production Centre puts the power back in the hands of the operator by delivering freedom from the limitations imposed by other less inspiring systems. With more channels, lower latency and Fairlight's legendary sound quality, Xynergi delivers the step change in performance that you have been looking for.

Features at a glance

- Crystal Powered
- Self-labelling multi-function switches
- On demand QWERTY keyboard
- Colour parameter pad
- Hi Resolution jog with smart transport
- Integrated talk back and monitoring system
- Multiple speaker set selection
- Digital Patchbay
- Comprehensive file exchange system
- Tri-level sync support
- Comprehensive mix automation system
- Touch sensitive rotary encoders
- Built-in multi-track recorder
- Integrated ADR package
- Advanced editing modes
- Advanced channel and track management system
- 3rd party PlugIn support
- SX-20 sync and I/O Toolkit
- Integrated video player/recorder



Intelligent Control



The Xynergi Software Toolkit

Xynergi's Software Toolkit offers access to a vast and virtually limitless palette of creative opportunities. With a built-in multi-media disk recorder/editor and with the world's most modern and powerful media processing platform under dedicated tactile control, Xynergi integrates all aspects of the media production process into one unified system.

Edit - Xynergi's award winning editing software is organised in a unique object-based architecture that makes it intuitive to use, fast to operate, powerful and flexible. With Xynergi's AudioBase3, multiple users can share sound libraries, music libraries and other sound files.

Record - All Xynergi systems include a built-in disk recorder that provides true multi-track performance, with seamless punch in and out and integrated video capture.

Plugins - Xynergi delivers the most open Plugin platform available today with an integrated audio bridge to a wide variety of VST compliant Plugins and ReWire supported sound design tools.

Automate - Xynergi's comprehensive automation brings large format mixing console tools to any scale of project and controls over 70,000 parameters including Plugins.

Video Integration - PyxisTrack is Xynergi's integrated video player/recorder. It supports multiple video file formats as well as video capture directly to the project timeline delivering true multi media capabilities.

Ingest, Import and Convert - With pro-audio's ultimate file conversion utility built-in, Xynergi allows users to open, import, play and export audio files and projects in today's leading professional formats.

Process - With access to eight bands of mastering quality EQ and three stages of dynamics on every channel, Xynergi never leaves its users asking for more.

Deliver - Xynergi's integrated Virtual Studio Runner (VSR) is a powerful trafficking and ingest solution that maximises productivity, cuts costs and prevents errors. VSR can convert and send files directly to clients via email, FTP or via an internal mailbox for quality assurance.

RECORD EDIT MIX PLUGINS AUTOMATE

VIDEO INGEST IMPORT EXPORT DELIVER

Xynergi System Specifications

Media Production Centre

The Xynergi Media Production Centre is available in four configurations. Each configuration has been tailored to suit a specific operational need and budget. All four configurations include the basics: Xynergi Tactile Controller, CC-1 acceleration card and the SX-20 sync/I-O box. Also included is the complete media software toolkit with integrated SD video track, automation system, plug-in manager, speaker management system, audio disk recorder and editor. Configurations expand by increasing channel capacity, and/or by addition of one or two 12-fader Sidecars. Choose your starting configuration today, with a complement of processing channels, mix busses and tracks to suit the type of work you are doing now. Later you can easily upgrade your channel capacity or your tactile interface.

Xynergi MPC-96 Specifications:

- Xynergi Tactile Controller
- Xynergi Software Toolkit
- CC-1 Crystal Core PCIe Card
- SX-20 Sync and Audio I/O unit
- 96 Full Processing Channels
- 32 User Definable Busses
- 96 Available Project Tracks
- 64 Concurrent Record Tracks
- 64 Concurrent Playback Tracks
- PyxisTrack SD Integrated Video.

Xynergi MPC-144 Specifications:

- Xynergi Tactile Controller
- Xynergi Software Toolkit
- CC-1 Crystal Core PCIe Card
- SX-20 Sync and Audio I/O unit
- 144 Full Processing Channels
- 56 User Definable Busses
- 192 Available Project Tracks
- 64 concurrent Record Tracks
- 96 concurrent Playback Tracks
- PyxisTrack SD Integrated Video.

Available Options for MPC:

Hardware

- Xynergi 12 Fader Sidecar
- Dedicated Main Meter Bridge
- SX-48 MADI Signal Exchange
- Crystal MADI Extender Card
- UP4 4-Channel Mic Preamplifier

Software

- CC-1 Licence Upgrade (adds channels, busses and tracks)
- PyxisTrack Upgrade to support HD Video formats
- AudioBase 3 Xtreme Sound FX Library Management
- Virtual Studio Runner Xtreme File Delivery



Xynergi MPC-96



Xynergi MPC-144F

Media Production Centre with Fader Sidecars

For those requiring the extra power and speed required for demanding large format projects, the MPC-144F and MPC-230F deliver more channels and are specified with one or two 12-fader Sidecars respectively. Each sidecar is a block of 12 motorized touch-sensitive faders. Also included are a Joystick, automation switches, status LEDs, OLED Displays and panning controls. Fader set switches provide an easy method to map any type of signal path to any of the available faders. For large scale and multi format mixing productions this extends the physical control of channels to mammoth proportions.

To support this scale of operation, Xynergi options include up to 4 MADI in and 4 MADI out connections. These can be converted to other industry standard analog and digital I/Os using the SX-48 Signal Exchange units. In total your studio can be equipped with more than 200 physical audio inputs and 200 outputs.

Xynergi MPC-144F Specifications:

- Xynergi Tactile Controller
- Xynergi Software Toolkit
- Xynergi 12-Fader Sidecar
- CC-1 Crystal Core PCIe Card
- SX-20 Sync and Audio I/O unit
- 144 Full Processing Channels
- 56 User Definable Busses
- 192 Available Project Tracks
- 64 concurrent Record Tracks
- 96 concurrent Playback Tracks
- PyxisTrack SD Integrated Video.

Xynergi MPC-230F Specifications:

- Xynergi Tactile Controller
- Xynergi Software Toolkit
- Two 12-Fader Sidecars
- CC-1 Crystal Core PCIe Card
- SX-20 Sync and Audio I/O unit
- 230 Full Processing Channels
- 72 User Definable Busses
- 192 Available Project Tracks
- 96 concurrent Record Tracks
- 192 concurrent Playback Tracks
- PyxisTrack SD Integrated Video.

Available Options for MPC-F:

Hardware

- 2nd Xynergi 12 Fader Sidecar
- Dedicated Main Meter Bridge
- SX-48 MADI Signal Exchange
- Crystal MADI Extender Card
- UP4 4-Channel Mic Preamplifier

Software

- CC-1 Licence Upgrade (adds channels, busses and tracks)
- PyxisTrack Upgrade to support HD Video formats
- AudioBase 3 Xtreme Sound FX Library Management
- Virtual Studio Runner Xtreme File Delivery

Note: The Xynergi Media Production Centre runs under Windows XP on any suitable host platform. Please check prevailing workstation specifications with your local Fairlight dealer.



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