

Made by engineers, for engineers.



Fully featured FM Transmitters, Amplifiers, Audio Processors and Changeover switches

WHO WE ARE

At Aqua Broadcast, we are on a mission to revolutionize the world of FM transmitters and broadcast audio. With a deep commitment to innovation and excellence, we specialize in creating high-quality, cutting-edge products that set new standards in the industry.

Founded with a vision to seamlessly blend cutting-edge technology with dynamic content, we specialize in delivering high-quality products. Our award-winning COBALT range of Fully Featured FM Transmitters have set a new standard with its custom Linux operating system.

Aqua Broadcast is shaping its own future, for you, our customers. Our transmitters are equipped with cutting-edge network security features, offering broadcasters peace of mind in an increasingly connected world. As we continue to develop new solutions, we aim to anticipate the future of broadcasting and deliver products that exceed expectations—helping our customers not just meet their goals but shape the future of broadcasting itself.

MADE BY ENGINEERS, FOR ENGINEERS

At Aqua Broadcast, we live by the mantra: “Made by engineers, for engineers.” With a team of highly skilled engineers and industry professionals boasting over 100 years of cumulative experience, we understand the technical challenges and demands faced by broadcasters. Our staff is driven by a passion for engineering excellence and a deep understanding of the intricacies of broadcast technology. Every product we create is designed with the precision and quality that only seasoned engineers can deliver.

We are not just a product manufacturer; we are a trusted partner for broadcasters across the globe. Our commitment to supporting our clients goes beyond just selling a product. We take the time to understand each station’s unique needs, offering tailored solutions and providing ongoing support to help them achieve their goals. Whether it’s ensuring smooth broadcasts, optimizing performance, or delivering custom-built features, Aqua Broadcast is always there to ensure your success. Join us as we continue to shape the future of broadcast technology, one innovation at a time, and proudly made in the UK.



100+ YEARS OF CUMULATIVE STAFF EXPERIENCE



QUICK TECHNICAL SUPPORT



FAST WORLDWIDE SHIPPING



FREE SOFTWARE UPDATES FOR LIFE



TECHNOLOGY FOR EVERY BROADCASTER

MPE ~

Aqua Broadcast uses its Multi Platform Engine (MPE) technology across the entire COBALT Transmitter range. The success of our Linux platform with Direct Digital Synthesis (DDS) modulation allows us to easily share this technology across different power outputs using a consistent architecture and a proven platform. This means that the Aqua Broadcast is able to leverage its expertise and successful developments in one area to improve the performance and efficiency of its products across the entire range of COBALT FM Transmitters.

CONNECT ~

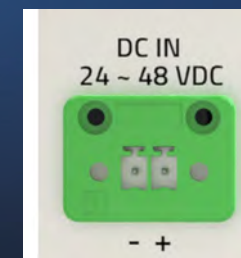
Aqua Broadcast places a strong emphasis on convenience for its customers by including all necessary features and tools for remote control and monitoring of its COBALT transmitter products. The easy-to-use web interface for control and settings includes HTTPS for network security, as well as SNMP, you can have peace of mind knowing that your network is secure and they have full control over your Transmitter.

PIONEERS ~

Our pioneering platform includes several firsts for FM Transmitters. Available as an option, our Dante card lets you get audio into our Transmitters easily from any Dante product, from anywhere with a network connection. MicroMPX decoder is available as an option and an STL (studio-to-transmitter link) codec. It transports a full FM composite MPX signal, including pilot and RDS, at a bit rate of only 320 kbit/s.

BUILT TO PERFORM ~

Available as an option for the entire 1U range, a 48V DC input provides the flexibility to broadcast using alternative power sources. For 2U products, there is an option for a second redundant power supply, complete with its own AC input, giving you redundancy on a new level.



COBALT FULLY FEATURED FM TRANSMITTERS



All COBALT fully featured FM Transmitters have exceptional audio quality and clear sound from the Direct to Channel Digital technology with minimal manipulation, that maintains audio integrity.

Operating on a fully customized LINUX OS system, this transmitter features a low-distortion modulator available across all COBALT FM Transmitter models. The modern design with its Ultra-clear RGB display and Intuitive Joystick controls with Haptic feedback and silicon buttons allow for swift setup, ensuring you get on the air in no time.

Equipped with a built-in 4-band Audio Processor, featuring Bass enhancement, Pilot protection, Wide AGC, and a range of expertly designed modern presets for an impressive start and RDS encoder into a compact format. Input and output options include Analog, AES/EBU, Digital MPX (AES192), Ethernet, USB, GPIO, GPS Sync with built-in SFN capabilities.

The advanced communication package includes an intuitive web interface and remote control via Ethernet (https). Full SNMP v1, v2c, and v3 management, with the ability to send emails, alerts, and remotely monitor audio, provide confidence with global control from any device with a web browser.

Silence detection and Audio failover, along with an advanced automations package enables settings changes based on conditions, SNMP, GPI, or through the scheduler function – are all built in. Listen to your audio remotely by a web interface with our Audio Monitoring function.

All models from 10W to 3kW feature a backup PSU fitted as standard, giving you piece of mind knowing you have a spare PSU fitted and ready to sitch over.

For added flexibility, an optional DC Input is available, allowing 1U products to operate on a 48V DC power system, giving you full RF, Alarms, emails, and Telemetry. Note – RF using the 48V DC Input is not possible on 2U and 4U products.

STANDARD FEATURES



Linux O/S



RGB Screen



DDS Modulator



4 Band Processor



RDS Encoder



Automations



Scheduler



Silence detection



SFN Ready



SNMP v1,v2c,v3



ITU Limiter



HTTP/S Ethernet



Web Audio Monitoring



Digital MPX (AES192)



Dual Power*



Custom configurations

OPTIONS



MicroMPX



6 Band Processor



Tuner



48V DC Power



External Fans

* SOME OPTIONS ARE MODEL SPECIFIC

COBALT FULLY FEATURED FM TRANSMITTERS

COBALT Fully Featured FM Transmitters are available in various models

C-10 ~ C-30 ~ C-50 ~ C-100



C-300 ~ C-700 ~ C-1000



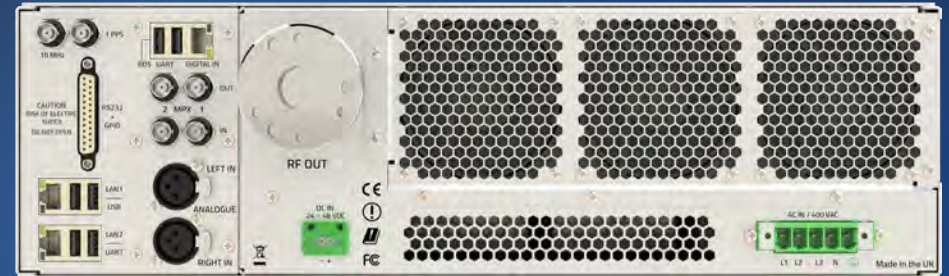
The models C-10, C-30, C-50, C-100, C-300, C-700 & C-1000 are

FCC Part 73 Certified for LPFM use

IC certified for use in Canada



C-2500 ~ C-3000



C-5000



COBALT INDUSTRIAL FM TRANSMITTERS

Housed in a rugged, Industrial chassis, the COBALT Industrial FM Transmitter series is designed for demanding environments, in an ultra -compact form that is designed to be mounted in various ways.

With all the same great standard features as the rack-mount COBALT range, the ultra-compact housing also offers a standard DC Input that lets you run the Industrial FM Transmitter series on a 48V DC power system and opens further possibilities for off-grid power options.
















The COBALT Industrial series does away with the Screen and front panel controls and is setup and controlled via its web-remote, on either Wi-Fi or LAN.

Perfect for use in Mines, Factories, Drive-in Cinema and anywhere you need a Transmitter in a compact form.

COBALT Industrial FM Transmitters are available in various models

C10-I ~ C30-I ~ C50-I ~ C100-I

STANDARD FEATURES

| | | | |
|---|---|--|--|
|  Linux O/S |  48V DC Power |  DDS Modulator |  4 Band Processor |
|  RDS Encoder |  Automations |  Scheduler |  Silence detection |
|  SFN Ready |  SNMP v1,v2c,v3 |  ITU Limiter |  HTTP/S Ethernet |
|  Web Audio Monitoring |  Digital MPX (AES192) |  Custom configurations | |

OPTIONS

| | | |
|---|---|--|
|  MicroMPX |  5 Band Processor |  Tuner |
|---|---|--|



COBALT FULLY FEATURED FM AMPLIFIERS

All COBALT FM amplifiers come with many of the standard features known on our FM Transmitters.

What sets our Amplifiers apart are their revolutionary Dual Input design with independent input RF power metering. If you have a 1+1 system or N+1 system using Cobalt exciters (C-10, C-30, C-50 or C-100) you can eliminate the need for any external changeover rack unit, as the dual drive system will take over if there is any issue. Saves Rackspace and \$\$\$\$.

Operating on a fully customized LINUX OS system, the modern design with its Ultra-clear RGB display and Intuitive Joystick controls with Haptic feedback and silicon buttons allow for swift setup, ensuring you get on the air in no time.

The advanced communication package includes an intuitive web interface and remote control via Ethernet (https). Full SNMP v1, v2c, and v3 management, with the ability to send emails, alerts, and provide confidence with global control from any device with a web browser.

Input failover gives you automatic switching between RF 1 & RF 2 plus an advanced automations package enables settings changes based on conditions, SNMP, GPI, or through the scheduler function – are all built in.

STANDARD FEATURES



Linux O/S



RGB Screen



SNMP v1,v2c,v3



HTTP/S Ethernet



Automations



Scheduler



Custom configurations



Dual Power

OPTIONS



48V DC Power



External Fans

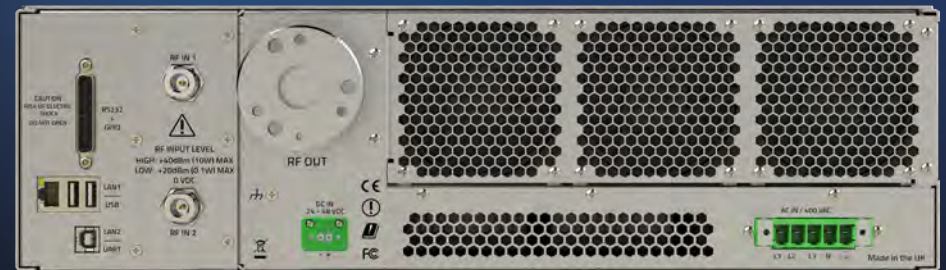
* SOME OPTIONS ARE MODEL SPECIFIC

COBALT Fully Featured FM Amplifiers are available in various models

A-300 ~ A-700 ~ A-1000



A-2500 ~ A-3000



CH-1 1+1 CHANGEOVER SWITCH

The Aqua Broadcast CH-1 is a versatile controller unit designed to monitor and manage redundant broadcast systems for FM radio transmission. This system ensures smooth transitions between transmitters, minimizing downtime in the event of a failure. It offers both automatic and manual operation modes with remote control or local management for maintenance and system testing.

Built on the proven COBALT platform, the CH-1 gives you added confidence when using a secondary or backup transmitter. The unit features a built-in DPDT relay, offering more flexibility than standard SPDT relays and adding the possibility of testing the backup exciter on a dummy load without interrupting the main transmission. You can use the internal relay for exciters or low power transmitters but if you require to switch greater power transmitters you can easily integrate external RF switches from renowned brands like Spinner through the rear connectors.

A set of interlocks on the rear panel is also included, along with a +48VDC power input for added redundancy in critical scenarios.

To simplify system configuration, most settings can be adjusted via software. This includes input status, output controls and interlock polarities, fault detection methods (both digital and analogue), timers, and analogue thresholds. All are fully user-programmable in software for added convenience

Controls and monitoring are available through various methods, including web, SNMPv1, v2C, and v3, as well as email alerts and notifications.

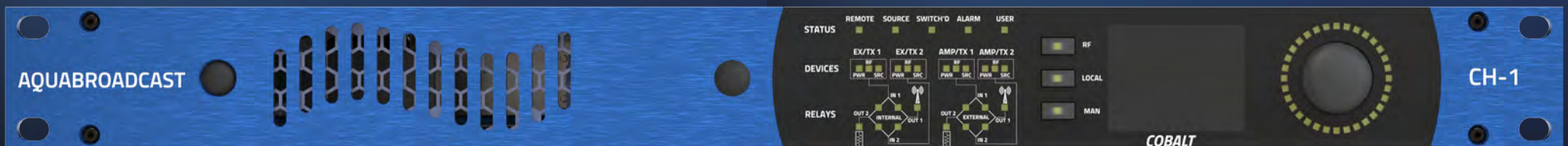
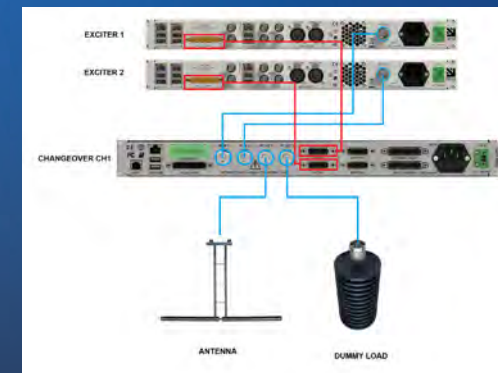
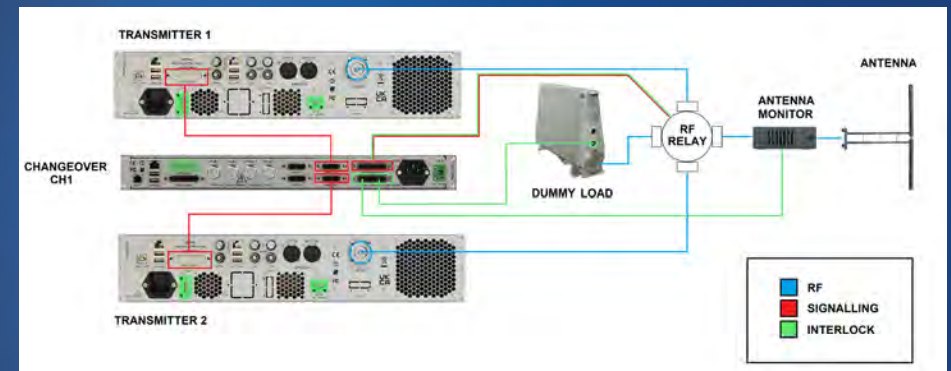
The front panel includes the easy-to-use COBALT joystick and a clear OLED display. A set of LED indicators provides real-time status updates, with a clear diagram showing the current system operation.

Setup via the GUI is quick and intuitive. You can set up various time settings to allow for faster changeovers when needed and define the number of permissible automatic switches. On the local mode, full control from the control panel is given to the engineers during maintenance without external interference. By using the handy scheduled tests you will ensure the backup transmitter is always ready when it is most needed.

Built for redundancy, designed for safety, and engineered for excellence, the Aqua Broadcast Changeover System keeps your broadcast on air, no matter what.

FEATURES

- Linux O/S
- RGB screen and LED synoptic
- Built-in DPDT RF relay switch (latching), 100W max.
- Built in RF power measurement for internal RF relay inputs
- Built in automatic failover logic with RF power detectors
- Automatic and Manual switching modes
- Dummy load connection for exciter testing
- Dedicated interlocks outputs (relay)
- Dedicated interlock inputs (antenna systems and loads)
- +48VDC power input



PACIFIC AUDIO PROCESSOR

Enhance your broadcasting with Aqua Pacific, our premium DSP-based FM audio processor, designed to deliver exceptional audio quality and a seamless user experience. Visually striking with its bold blue anodized aluminium finish, the Pacific doesn't just sound great—it stands out in your equipment rack.

Control is effortless via joystick navigation, haptic feedback, and backlit buttons. Dual full-colour screens display critical data, even when exploring advanced settings. Known for clean, efficient processing, Pacific builds on this reputation with cutting-edge features. Its adaptive RMS-based AGC uses dynamic window algorithms—aggressive when needed, subtle when not. Two operating modes—Stereo and Matrix—let you choose standard signal paths or expand stereo width for improved multipath performance or soundstage enhancement. Adjustable crossover points offer added flexibility.

Audio shaping is precise with a powerful 6-band limiter, multiband clippers, and triple final clipper stages, ensuring loud yet clean modulation. The upgraded EQ section lets you fine-tune your signature sound with ease.

Connectivity is future-ready. Standard I/O includes balanced analogue, MPX/RDS, and dual AES digital (audio and MPX). Optional modules support AES67, MPX over IP, and other audio-over-IP formats.

Built on the same reliable software platform as our Cobalt range, Pacific supports flexible configuration profiles. Trigger setups manually, on a schedule, via automation, or from external devices—perfect for dynamic environments. Share and back up configurations across your network or deploy them to backup units instantly.

Advanced input source failover supports hybrid switching for audio, MPX, and RDS. Manage and monitor remotely via a secure web interface from any device. View diagnostics, logs, alerts, and stream live audio directly to your browser to confirm broadcast quality. Stay informed with SNMP or email notifications.

FEATURES

Hardware

- Dual RGB Screen
- Joystick with haptic feedback and backlit silicon buttons
- Simultaneous Digital audio and MPX input and output.
- Plenty of sources and extra options: analogue, digital, IP audio codecs, IP MPX codecs, AES67
- Two independent LAN interfaces
- RDS Encoder - Static and Dynamic, UECP Compliant

DSP-based Audio processing

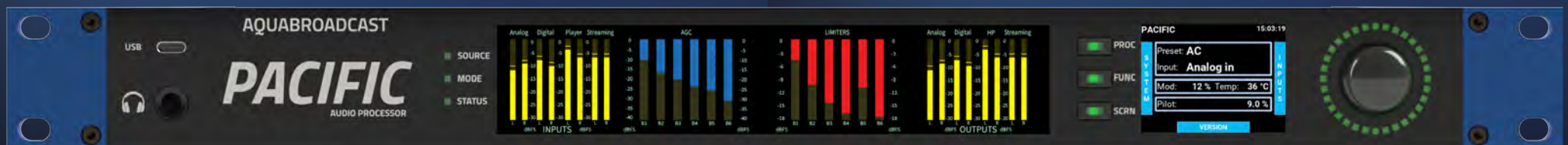
- 6 Bands
- High-pass, bass shelf, bass peak and processed bands mixer
- Multiband AGC
- Multiband dual time-constant limiter
- Multiband distortion cancelling clippers
- Wideband distortion cancelling clippers
- Wideband overshoot compensated clippers
- Factory and user audio presets

Oversampled stereo generator

- Excellent stereo separation
- Flexible mix of sources
- Anti-alias composite clippers
- Pilot protection
- ITU-R BS 412.9 MPX power limiter

Software platform

- Linux OS
- Free software updates for life
- Easy to use and comprehensive remote web interface



The Zen Level Zen 10 audio level controller by David Reaves Audio and Aqua Broadcast offers advanced, customizable Automatic Gain Control (AGC) for consistent and sonically pleasing audio levels. Developed by David Reaves, whose fascination with AGC began in his youth, the Zen 10 refines AGC principles to create a seamless, unobtrusive audio experience.

If you're good at creating content that uses audio, you know that the people listening to you are going to want your sound levels to be consistent. The thing that does this for you is an "Automatic Gain Control," or AGC.

What sets the Zen 10 apart is its unique "Zen" approach—knowing when not to adjust audio. If the audio level is already correct, no change is made, preserving the integrity of your sound.

This philosophy helps prepare audio for the next stages of a broadcast chain, making any processor sound better while maintaining consistent, high-quality output.

In a world of multi-platform delivery—streaming, podcasts, network contribution—consistent, great-sounding audio is essential. The Zen 10 excels across all these platforms, ensuring your content always sounds its best.

With support for analog, AES3 digital, and Dante AES-67 digital audio I/O, and monitoring via a front-panel headphone jack, the Zen 10 can be controlled through its front panel or a web interface with dual colour LCD displays. Offering presets for quick setup and customizable settings, the Zen 10 features ten customizable control systems and up to five adjustable frequency bands, providing precise, dynamic control for any audio environment.

The Zen 10 is the ideal solution for precision audio level control in various applications, including:

- Radio broadcast pre-processing
- Audio production
- TV loudness control
- Streaming
- Podcasting

Hardware

- Dual RGB Screen
- Joystick with haptic feedback and backlit silicon buttons
- Simultaneous Digital audio and MPX input and output.
- Plenty of sources and extra options: analogue, digital, IP audio codecs, IP MPX codecs, AES67
- Two independent LAN interfaces

DSP-based Audio processing

- 5 Bands
- High-pass, bass shelf, bass peak and processed bands mixer
- Multiband AGC
- Factory and user audio presets

Oversampled stereo generator

- Excellent stereo separation
- Flexible mix of sources
- Anti-alias composite clippers
- Pilot protection
- ITU-R BS 412.9 MPX power limiter

Software platform

- Linux OS
- Free software updates for life
- Easy to use and comprehensive remote web interface



AWARD WINNING PRODUCTS

We are proud of our products and achievements. Our industry-leading Technology has been recognized, for it's outstanding performance, vision and user features.



CUSTOMER SUCCESS

"This is the Cadillac of LPFM transmitters, no doubt"

Dave Solomon, WRTH South Carolina

"Aqua Broadcast simplify the delivery of audio signals to the transmitters with uMPX. Before you needed a rack with audio decoder, FM processor and even RDS encoder. But all you need is a network cable and delivery if the FM signal via decent 3G, 4G or even 5G. Maybe WiFi or fibre optical network. It saves rack space, it saves energy cost, it makes it also easier to feed FM transmitters in rural areas much easier with a better audio signal."

Eivind Engberg, Teknisk Rådgiver, Norway

"We are very pleased with the new Aqua FM transmitter, all the units in the past have been so noisy and people could hear them in the microphones. This new unit is very quiet we don't even know it is in the room, we also like the audio processor that is included. Thank you so much for your help"

Grant Rattlesnake - Toofinaowaziibeeng Treaty Reserve, Manitoba, Canada

"As resellers who are thrilled to work with your company and promote your cutting-edge transmitters, we want to highlight the benefits of partnering with you. The new DDS transmitters you have developed are truly exceptional AoIP, uMPX and microMPX connectivity right out of the box. This feature provides a level of convenience and flexibility that is unmatched in the market. The versatility of your transmitters is a huge selling point for us. Being able to easily connect to various equipment and systems makes integration seamless and efficient"

Krisztian Varga, Senior engineer, Global Broadcast Solutions, Hungary

GET IN TOUCH

Choosing the right Broadcast Equipment manufacturer for your business is crucial to your success and reputation. Combining skills, technology and passion Aqua Broadcast leading designs sets new standards in FM Transmitter products.

With a deep understanding of FM radio transmission technologies, Aqua Broadcast provides cutting-edge transmitters and amplifiers that ensure top-notch signal quality. Our global reach aligns perfectly with your goal of communicating effectively with customers worldwide. The user-friendly interface of Aqua's products makes them a breeze to operate, simplifying the broadcasting process for both novices and seasoned professionals. Trust Aqua Broadcast to elevate your broadcasting game.

Our team of experts collaborates with you across all stages of your project, providing an extensive range of services. Whether it's conducting engineering studies or crafting custom-designed products, you can rely on us every step of the way.

Contact us to find out more information on our products, or to locate your local dealer.

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