

# PRODUCT CATALOG 2017

## ANDROMEDA and GeMINI Audio Codec Systems

from reporting via studio applications  
to fully customizable solutions



- up to 390 channels with MADI
- silent operation with heat pipe cooling
- Encryption and VPN
- PIPE concept, simple as never before
- OPUS, FLAC and AES67
- reporter device for 4 users
- 10" touch display
- emulation of physical devices
- Rocket housings
- EBU compliant





**Detlef Wiese,**  
Founder and CEO  
MAYAH Communications GmbH

After almost 20 years of supplying professional audio transmission and recording equipment for telecommunications, broadcasting, voice-overs, musicians, studios and event companies, we are now expanding our product line in two directions: desktop devices and highly customizable system solutions.

Based on the CENTAURI range of high quality audio codecs and all the knowhow we have gained, we have now launched the ANDROMEDA and GeMINI product line.

ANDROMEDA is capable of more than 390 channels, while the GeMINI Report boasts touchscreen controls that emulate physical devices. Our new products can handle everything from reporting, to studio applications and fully customized system solutions in the fields of gateway, answering services, streaming, scalable mobile reception, news distribution or any other audio transmission application. All that while supporting every modern audio coding format. Our customers define the application and thus, the activated features.

Furthermore, we also offer mobile apps for smartphones like our MOBIPhone app, which is available as a free version in the App Store and also as a branded version with custom features defined by the customer.

For all daily down-to-earth tasks we also still offer our C10/C12 range as well as our classic workhorse, the CENTAURI IV 3001.

We wish you stable and reliable audio transmissions!

Your MAYAH Team

# OPUS - AES67 - FLAC

available now for all new MAYAH devices



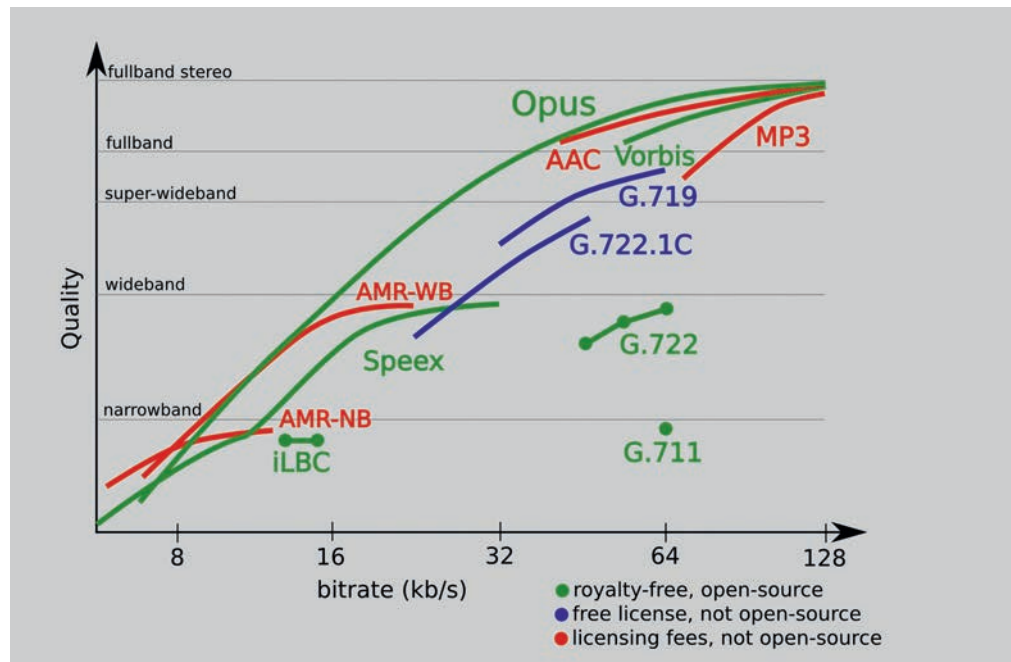
MAYAH is launching Opus, the new state-of-the-art audio codec, as standard audio codec format for all current products – ANDROMEDA, GeMINI Studio and Report. Opus is a superb sounding low latency codec for broadcasters and other users. Benchmark results show that it offers better quality than most other comparable algorithms while still maintaining very low delay, which is vital for broadcast applications.

## FLAC

A lossless coding scheme which mathematically reduces the redundancy. For all who cannot accept any objective impairment, it is an audio coding format for lossless compression of digital audio and is also the name of the reference codec implementation. Digital audio compressed by the FLAC algorithm can typically be reduced to 50–60% of its original size and decompress to an identical copy of the original audio data.

## AAC / AAC HE

Like the MPEG standard, a globally accepted audio coding algorithm, which is very good for full band signals even at very low bitrates. A high amount of flexibility going from top of range bitrates of 320 kbps for AAC down to 8kbps for AAC HE. In combination with Forward Error Correction and Packet Loss Concealment, even very erroneous mobile applications are covered with this convincing audio algorithm.



\* taken from opus-codec.org

## AES67

The AES67 standard describes a relatively straightforward collection of networking solutions and protocols that together enable audio networks to interoperate. It offers network time distribution and media synchronisation, low latency for uncompressed professional audio. The interoperability is based on IETF and IEEE standards and it operates on standard IT equipments.

# Andromeda –

supporting the PIPE concept  
Now with 390 channels, OPUS and FLAC



## KEY FEATURES



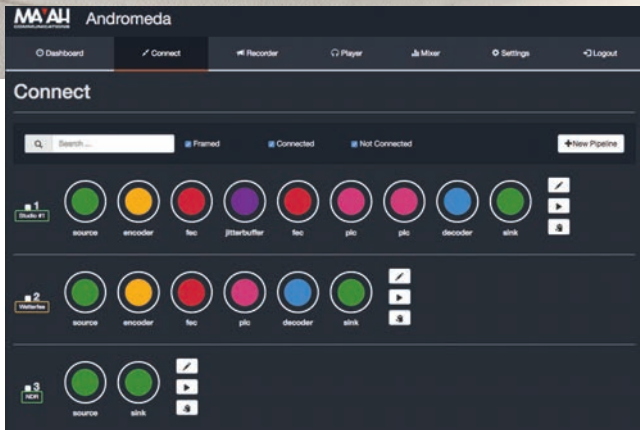
ultimate number of channels: 390 channels with MADI

Silent Operation: Heat Pipe cooling for the most complex applications

Hidden Transmission: Encryption and VPN, a first for audio codecs

PIPE Concept: Complex parameters at your fingertips, simple as never before

The best formats: OPUS, FLAC and AES67 in just one device



## APPLICATIONS

- multi program streaming encoder
- transcoder
- gateway
- program logging and recording
- high quality answering machine
- central reporting and contribution
- reception device

MAYAH has been a pioneer in audio transmission for broadcasting applications since 1997. The CENTAURI with its full four facelifts from 2000 to 2016 has become a de-facto industry standard for Europe and beyond. Based on all those ideas and a series of international patents, the MAYAH team is proud to introduce the groundbreaking ANDROMEDA and GeMINI Studio audio codecs.

OPUS, FLAC, AES67 and other audio coding formats are offered in combination with RTP, RTMP, SDP, SIP and EBU Tech 3326 compliant protocols. Additional Pipe elements, such as FEC for Forward Error Correction profile selection and PLC as packet loss concealment strategies support flexible streaming settings according to the users needs.



# GeMINI Studio –

World's Smallest Audio Codec with 8 In/Out Analog and Digital  
Now with Dashboard and FLAC



## KEY FEATURES

smallest audio codec with  
8 channels digital and analog

no forced cooling, low power  
consumption

Dashboard and PIPE concept for  
piece of cake control

OPUS, FLAC and AES67 in one device

for all mid size applications in  
broadcasting and studio



## APPLICATIONS

point-to-point streaming for program  
exchange

point-to-point for connections to  
reporters

multi program streaming

logging, recording

GeMINI Studio is small and big at the same time. With ½ 19" and 1 RU it offers more than any other: 8 channels in and out simultaneously, analog and AES/EBU on board. Supported applications range from studio and hub device for program exchange and reporting reception to answering machine, conversion tool, recording, logging and other applications.

The variety of uses is nearly endless.



# GeMINI Report

Rock solid Reporting and Comentatory  
Emulation legacy hardware devices



## KEY FEATURES

- 4 reporter headset unit
- 10" touch display with MAYAH intuitive control
- monitoring sound sources with graphical UI
- emulation of traditional devices
- Professional and robust interfaces and housing
- EBU compliant

The new portable desktop device for reporters and commentators is introducing a revolution in the so far mainly hardware control driven market. MAYAH's innovation is the complete control via touchscreen including sound positioning and the emulation of your favorite operation designs.



## Missing your old device?

### now emulating what you are used to

The incredible idea of getting access to something new and at the same time keeping the old is behind MAYAH's emulation of known user interfaces. If a customer does not want to change operating characteristics, we have pre-sets for accessing user interfaces of emulated brands. Such cloned physical user interfaces can easily be adapted and wholly new ones invented.



People seeing this are going crazy. Until now, reporter monitoring was dominated by controlling a variety of knobs and faders. With our new intuitive monitoring positioning control this is old news. The users can focus on their main job, creating content and not wasting time with settings and technical control. The device is user friendly and simple to use. Based on the most modern tools, the remote control of GeMINI Report supports not only a Dashboard but even the new MAYAH invention, the PIPE-concept as well as extensive phone book and user settings, user management and more:

1. Simple drag-and-drop controls. Creating and editing a pipe is quick, easy and intuitive.
2. Everything in one menu. Instead of navigating half a dozen menus and submenus to set up your connections, everything will be done from a single menu screen in just a few moments.
3. Monitoring multiple sound sources at once over a single screen. Easy positioning by left/right and distance are offering a new dimension to the users.
4. Naming and search functionality. Quickly find specific pipes and enjoy easier navigating and organizing of multiple connections.
5. Faster processing and better responsiveness. Better and faster set up, monitoring and control of your connections.

## Robust and connected now with fall-proof bumper

The GeMINI Report combines finest high-tech and an extremely robust housing. Work places in stadiums and on the road demand both a highly ergonomic but also rugged design.

The design offers three versions: volcano blue, earth orange and without bumper. Those three possibilities allow the reporter to select in favor of taste or practical usage.

Additionally, a very nice carrying case is available to transport the GeMINI Report safely between the different events.



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