WorldDMB European Automotive Event 2015

Radio - the best connection in the car

Wednesday 20 May 2015, Brussels, Belgium

Event Partner Sponsors











DAB+ glass mount antenna, for internal adhesive mounting, with inconspicuous receiving element. This kind of antenna is quick and easy to install and no holes are needed.

DAB+ roof mount antenna, for backside installation, with 40cm rod. Available in various versions with different combinations of functions. It can be installed in place of an existing antenna, making use of the existing hole or drilling a new one.

DAB+ shark-fin antenna. A stylish solution available in various versions with different combinations of functions. It can be installed in place of an existing antenna, making use of the existing hole or drilling a new one. It offers indeed a very attractive solution for Your car roof!

Active splitter to be connected to the original AM/FM radio antenna. It splits and amplifies the antenna's signal. It allows to preserve the original antenna, only if it's a passive one, usually mounted on the front roof.

DAB&PLAY, embedded smart antenna solutions that offer outstanding reception of the Digital Radio thru the car's original glass antennas. For now this solution is only available for VW/Skoda and Seat vehicles.

Antenna solutions for the digital radio DAB+ reception.



Welcome to the WorldDMB European Event 2015



Dear colleagues,

Thank you for coming to WorldDMB's European Automotive event in Brussels.

This event comes at a time when digital radio is making significant gains across Europe. Last month, Norway became the first country in the world to set a firm date for Digital Switchover (2017). Switzerland is set to be next – with plans for Switchover in 2020-24. In Germany, the ARD has outlined its long term commitment to DAB+ and the Ministry for Transport and Digital Infrastructure (BMVI) has recently called on all stakeholders to join forces to accelerate this development. In the last 12 months, the UK, Denmark and Netherlands have all made good progress in the adoption of digital radio; and during the same period, Italy, France and Poland have each seen important market developments. We are clearly seeing the emergence of a future platform for radio with European scale – a development which is further emphasised by the launch today of Belgium's first DAB+ commercial multiplex here in Brussels.

For this momentum to be maintained, it is essential that the automotive sector embraces digital radio. This is already happening in the UK and Norway, where over 60% of new cars are fitted with digital radio, and in Switzerland where the figure is over 30%. But much remains to be achieved in other markets.

Digital radio offers significant benefits to motorists – greater choice, superior sound and the potential for significantly enhanced traffic information services (free to air and robust). However, for vehicle manufacturers, three other factors are also significant: extensive coverage (in cities and on major roads), strong marketing support and clear political commitment. Increasingly, we are seeing this across a growing number of European markets. We all have a responsibility to ensure that these developments are communicated effectively to decision makers within the OEMs.

Today's event is part of this communications programme. We will be hearing about marketing and technical developments, improvements to the user experience and digital radio's future in the connected car. I hope that you learn from and enjoy today's speakers. Our goal is to ensure that manufacturers, broadcasters, policy makers and regulators are fully informed of developments across Europe.

Best Regards,

Patrick Hannon

WorldDMB President

land tanno

AGENDA

OP-25 OP-25 OP-25 Portick Horson, President, WorldDWB and Vice Pesident Copyone Development, Fronter Silicon OP-25 Portick Horson, President, WorldDWB, and Vice Pesident Copyone Development, Fronter Silicon OP-25 Portick Horson, President Copyone Development, Fronter Silicon OP-25 Districk Schirm, Director ICT and Telecommunication Division, Bovarian State Ministry for Economic Affairs and Meeting, therepy and Inchrollogy Meeting the demands of the connected driver in the cor Apien Bangard, Individual Copyonal President OP-25 District Chief OP-25 District Chie	09:00	09:25	Launch of network operator Norkring DAB+ commercial multiplex Sven Gatz, Flemish Minister for Culture, Belgium
Dietrich Schirm, Director ICT and Telecommunication Division, Bayarian State Ministry for Economic Affairs and Media, Energy and Iechnology Media property Media Media 10:25 10:30 0:440 COHEL BREAK 10:45 11:00 Digital Radio Technology; standard and spectrum Index Cornell, WaldelDMB Rechnolar Committee Chair and Principal Systems Architect, BBC Future Media 11:00 11:15 Support from broadcasters around Europe; public and commercial broadcasters Mathias Cainchon, Senior Project Management, Proper public and commercial broadcasters Mathias Cainchon, Senior Project Management, Red and Technology & Innovation, European Broadcasting Union EC ITIS directive developments: emergency warnings using DAB+ and rollout of the DAB+ national network in Germany	09:25	09:45	
Arjen Bongard, Editor-in-Chief, automotive T International	09:45	10:05	Dietrich Schirm, Director ICT and Telecommunication Division, Bavarian State Ministry for Economic Affairs and
10:30 10:45 10:00 10:45 Digital Radio Technology: standard and spectrum Undary Cornell, WorldDMB Technical Committee Chair and Principal Systems Architect, BBC Future Media 11:00 11:15 Support from broadcasters around Europe: public and commercial broadcasters Mathias Coinchon, Senior Project Manager, Media Technology & Innovation, European Broadcasting Union 11:15 11:35 EC ITIS directive developments: emergency warnings using DAB+ and rollout of the DAB+ national network in Germany Olat Konte, Head of Broadcast Applications Group, Fraunhofer IIS Thomas Wächter, Head of Broadcast Applications Group, Fraunhofer IIS Thomas Wächter, Head of Product Management, Radio Business Unit, Media Broadcast GmbH Planing regulation and rollout of DAB+ in France Renaud Casés, Broadcast Radio Officer, Consell supérieur de l'audiovisuel (CSA) Automotive marketing campaigns for automotive: new market Italy Eugenio La leana, Head of Research and Development, RIL 102.5 Hit Radio Pan European support for digital radio in the automotive sector Laurence Harrison, Technology and Market Development Director, Digital Radio UK Q&A UNNCH BREAK Radio - the best connection in the car? Roger C. Lanciot, Associate Director, Automotive Multimedia and Communications Service, Strategy Analytics 13:50 14:10 The European automotive market: an overview Erwin Kirschner, Technical Affairs Director, European Automotibe Manufacturers' Association (ACEA) Business opportunities in the aftermarket: experiences and messages from Norway Hans Christian Andersen, Chief Executive Officer, Sahaga AS, Norway Taking automotive industry: bringing broadcasters and the auto sector together Ernst Werder, Managing Partner, MCDT, Switzerland Starting automotive digital radio development in a new market: putting the driver first Jacqueline Bierhort, Project Leader, Digital Radio+ Norway achieved its 2017 FM switch-off Cunnar Garfors, President of International DMS Advancement Group (IDAG) and Advisor on Radio Distribution at Norw	10:05	10:25	
Digital Radio Technology: standard and spectrum	10:25	10:30	Q&A
Lindsay Cornell, WorldDMB Technical Committee Chair and Principal Systems Architect, BBC Future Media	10:30	10:45	COFFEE BREAK
Mathias Coinchon, Sentior Project Manager, Media Technology & Innovation, European Broadcasting Union EC ITIS directive developments: emergency warnings using DAB+ and rollout of the DAB+ national network in Germany Old Korte, Head of Broadcast Applications Group, Fraunhofer IIS Thomas Wächter, Head of Product Management, Radio Business Unit, Media Broadcast GmbH	10:45	11:00	· · · · · · · · · · · · · · · · · · ·
network in Germany Olaf Korte, Head of Broadcast Applications Group, Fraunhofer IIS Thomas Wächter, Head of Broadcast Applications Group, Fraunhofer IIS Thomas Wächter, Head of Product Management, Radio Business Unit, Media Broadcast GmbH	11:00	11:15	
Renaud Casès, Broadcast Radio Officer, Conseil supérieur de l'audiovisuel (CSA)	11:15	11:35	network in Germany Olaf Korte, Head of Broadcast Applications Group, Fraunhofer IIS
Eugenio La Teana, Head of Research and Development, RTL 102.5 Hit Radio Pan European support for digital radio in the automotive sector Laurence Harrison, Technology and Market Development Director, Digital Radio UK Q&A 12:40 13:30 13:30 13:50 Radio - the best connection in the car? Roger C. Lanctot, Associate Director, Automotive Multimedia and Communications Service, Strategy Analytics The European automotive market: an overview Erwin Kirschner, Technical Affairs Director, European Automobile Manufacturers' Association (ACEA) Business opportunities in the aftermarket: experiences and messages from Norway Hans Christian Andersen, Chief Executive Officer, Sahaga AS, Norway Talking to the automotive industry: bringing broadcasters and the auto sector together Ernst Werder, Managing Partner, MCDT, Switzerland Starting automotive digital radio development in a new market: putting the driver first Jacqueline Bierhorst, Project Leader, Digital Radio+ Network, The Netherlands COFFEE BREAK Improving usability and the user interface for drivers: what radio will look like in the car Nick Piggott, Chair, RadioDNS Project Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneto Ronceret, Marketing Director, ViTraffic Services, Mediamobile	11:35	11:50	
Laurence Harrison, Technology and Market Development Director, Digital Radio UK 12:30 12:40 Q&A 13:30 IUNCH BREAK 13:30 13:50 Radio - the best connection in the car? Roger C. Lanctot, Associate Director, Automotive Multimedia and Communications Service, Strategy Analytics 13:50 14:10 The European automotive market: an overview Erwin Kirschner, Technical Affairs Director, European Automobile Manufacturers' Association (ACEA) 14:10 14:30 Business opportunities in the aftermarket: experiences and messages from Norway Hans Christian Andersen, Chief Executive Officer, Sahaga AS, Norway 14:30 14:50 Talking to the automotive industry: bringing broadcasters and the auto sector together Ernst Werder, Managing Partner, MCDT, Switzerland 14:50 15:10 Starting automotive digital radio development in a new market: putting the driver first Jacqueline Bierhorst, Project Leader, Digital Radio+ Network, The Netherlands COFFEE BREAK 15:30 15:50 Improving usability and the user interface for drivers: what radio will look like in the car Nick Piggott, Chair, RadioDNS Project Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, Viraffic Services, Mediamobile	11:50	12:10	· · · · · · · · · · · · · · · · · · ·
13:30 13:50 13:50 Radio - the best connection in the car? Roger C. Lanctot, Associate Director, Automotive Multimedia and Communications Service, Strategy Analytics	12:10	12:30	, ,,
13:30 13:50 Radio - the best connection in the car? Roger C. Lanctot, Associate Director, Automotive Multimedia and Communications Service, Strategy Analytics 13:50 14:10 The European automotive market: an overview Erwin Kirschner, Technical Affairs Director, European Automobile Manufacturers' Association (ACEA) 14:10 14:30 Business opportunities in the aftermarket: experiences and messages from Norway Hans Christian Andersen, Chief Executive Officer, Sahaga AS, Norway 14:30 14:50 Talking to the automotive industry: bringing broadcasters and the auto sector together Ernst Werder, Managing Partner, MCDT, Switzerland Starting automotive digital radio development in a new market: putting the driver first Jacqueline Bierhorst, Project Leader, Digital Radio+ Network, The Netherlands COFFEE BREAK 15:10 15:30 Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, V-Traffic Services, Mediamobile	12:30	12:40	Q&A
Roger C. Lanctot, Associate Director, Automotive Multimedia and Communications Service, Strategy Analytics The European automotive market: an overview Erwin Kirschner, Technical Affairs Director, European Automobile Manufacturers' Association (ACEA) Business opportunities in the aftermarket: experiences and messages from Norway Hans Christian Andersen, Chief Executive Officer, Sahaga AS, Norway Talking to the automotive industry: bringing broadcasters and the auto sector together Ernst Werder, Managing Partner, MCDT, Switzerland Starting automotive digital radio development in a new market: putting the driver first Jacqueline Bierhorst, Project Leader, Digital Radio+ Network, The Netherlands COFFEE BREAK Improving usability and the user interface for drivers: what radio will look like in the car Nick Piggott, Chair, RadioDNS Project Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, VTraffic Services, Mediamobile	12:40	13:30	LUNCH BREAK
Erwin Kirschner, Technical Affairs Director, European Automobile Manufacturers' Association (ACEA) 14:10 14:30 14:30 14:50 14:50 15:10 15:10 15:10 15:30 15:30 15:50 16:10 16:10 16:30 16:30 16:50 Erwin Kirschner, Technical Affairs Director, European Automobile Manufacturers' Association (ACEA) Business opportunities in the aftermarket: experiences and messages from Norway Hans Christian Andersen, Chief Executive Officer, Sahaga AS, Norway Talking to the automotive industry: bringing broadcasters and the auto sector together Ernst Werder, Managing Partner, MCDT, Switzerland Starting automotive digital radio development in a new market: putting the driver first Jacqueline Bierhorst, Project Leader, Digital Radio+ Network, The Netherlands COFFEE BREAK Improving usability and the user interface for drivers: what radio will look like in the car Nick Piggott, Chair, RadioDNS Project Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, VTraffic Services, Mediamobile	13:30	13:50	
Hans Christian Andersen, Chief Executive Officer, Sahaga AS, Norway Talking to the automotive industry: bringing broadcasters and the auto sector together Ernst Werder, Managing Partner, MCDT, Switzerland 14:50 15:10 Starting automotive digital radio development in a new market: putting the driver first Jacqueline Bierhorst, Project Leader, Digital Radio+ Network, The Netherlands COFFEE BREAK 15:30 15:50 Improving usability and the user interface for drivers: what radio will look like in the car Nick Piggott, Chair, RadioDNS Project Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, VTraffic Services, Mediamobile	13:50	14:10	•
Ernst Werder, Managing Partner, MCDT, Switzerland 14:50 15:10 Starting automotive digital radio development in a new market: putting the driver first Jacqueline Bierhorst, Project Leader, Digital Radio+ Network, The Netherlands 15:10 15:30 COFFEE BREAK 15:30 15:50 Improving usability and the user interface for drivers: what radio will look like in the car Nick Piggott, Chair, RadioDNS Project Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, V-Traffic Services, Mediamobile	14:10	14:30	, ,
Jacqueline Bierhorst, Project Leader, Digital Radio+ Network, The Netherlands COFFEE BREAK Improving usability and the user interface for drivers: what radio will look like in the car Nick Piggott, Chair, RadioDNS Project Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, V-Traffic Services, Mediamobile	14:30	14:50	
15:30 15:50 Improving usability and the user interface for drivers: what radio will look like in the car Nick Piggott, Chair, RadioDNS Project Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, V-Traffic Services, Mediamobile	14:50	15:10	
Nick Piggott, Chair, RadioDNS Project Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon A radio listener's test drive along the fjords and how Norway achieved its 2017 FM switch-off Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, V-Traffic Services, Mediamobile	15:10	15:30	COFFEE BREAK
Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution at Norwegian Broadcasting Corporation (NRK) The future of digital radio car products Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, VTraffic Services, Mediamobile	15:30	15:50	Nick Piggott, Chair, RadioDNS Project
Michael Hill, Managing Director, Radioplayer TPEG for digital radio Europe wide traffic and travel data Agneta Ronceret, Marketing Director, V-Traffic Services, Mediamobile	15:50	16:10	Gunnar Garfors, President of International DMB Advancement Group (IDAG) and Advisor on Radio Distribution
Agneta Ronceret, Marketing Director, V-Traffic Services, Mediamobile	16:10	16:30	
	16:30	16:50	·
	16:50	17:45	

Sponsors



Calearo Group, established in 1957, is a global leader in antennas for automotive and other wireless communication fields. Calearo Group is the preferred partner for OEMs, aftermarket, special and luxury vehicles, and TLC players, whenever advanced telecommunications skills are required, from consulting and research projects to mass manufacturing.



MEDIA BROADCAST is Germany's largest full-service provider in the media and broadcast industry. The company's core business revolves around the planning, installation and operation of wireless distribution platforms for TV and radio broadcasters, as well as for other content and data providers.



V-Traffic mobility solutions – from Mediamobile, the leading European broadcast traffic information provider. Our services are preserving customers' driving pleasure day after day, by making travel safer, more efficient and more environmentally friendly. We deliver premium real-time traffic services adapted to local conditions in more than 20 European countries, in collaboration with local partners. Our state-of-the-art production platform allows us to provide smart solutions to the most demanding automotive and navigation systems manufacturers, via RDS-TMC, DAB-TPEG and connected technologies – or a combination of the three! Pioneers in DAB, we already broadcast several DAB traffic services over Europe. www.mediamobile.com

Exhibitors



As a qualified and experienced partner of the industry, ADMESS provides signal generators and test tools for DAB+ / T-DMB and various digital and analogue standards, portable wideband RF recording / playback solutions, audio analysers and general purpose test & measuring instruments. We are proud to look back upon 15 years of experience in selling DAB signal generators for R&D, QC and manufacturing test.



Antennentechnik Bad Blankenburg GmbH develops and manufactures antenna systems according to the highest technological and qualitative requirements and standards of the automotive industry, public authorities, distributive trades and specialised industrial operators. The company is well established and highly respected within the antenna industry. Antennetechnik was the first antenna manufacturer to get involved with DAB. Our involment in discussions and events have enabled us to develop best solutions for car manufacturers who have already started fitting DAB as standard option, but also intelligent converter solutions for retrofitting older car models.



Connects2 is Europe's largest supplier of retro fit DAB black box solutions to all the major European Vehicle Manufacturers. Connects2 Ltd is the market leader in Europe for the supply of car audio interfaces, providing electronic boxes that allow aftermarket radios and other audio devices to be fitted seamlessly into most vehicles. The Connects2 brand has become firmly associated with quality and has achieved a position where major vehicle manufacturers and car audio manufacturers regularly commission us to design and develop specific interface solutions for them. To see the full range of AutoDAB solutions visit www.autodab.com.



Deutschlandradio is the national German public radio broadcaster and produces three radio programmes, Deutschlandfunk, Deutschlandradio Kultur and DRadio Wissen. The main focus of the three programmes is news and culture with around 70% of all programming, talk and information. Additional services (PADAD) such as slide show, EPG and further data service are also elements in Deutschlandradio's DAB streams.



The best traffic information reaches ALL DRIVERS, EVERYWHERE, EVERYTIME

Customer expectations have changed. To stay in control, drivers require traffic information everywhere and at ALL times. Helping them avoid traffic, hazardous weather conditions and arrive safely on time.

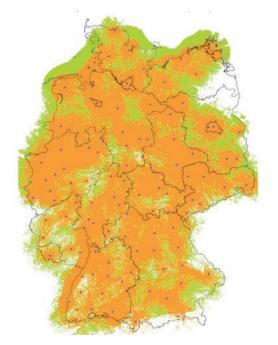
To deliver the most reliable service to your customers, V-Traffic uniquely combines Connected and DAB Broadcast Traffic Services in one single seamless solution. Precise, real-time traffic information, available for the vehicle lifetime.

To test our TPEG traffic services on your equipment: **contact@mediamobile.com**

V-Traffic – Mobility solutions from Mediamobile







ENABLING MEDIA INNOVATION

COVERAGE OF THE NATIONWIDE DAB+ MULTIPLEX WILL BE COMPLETED BY END OF 2016

- > Roll out of 110 sites until end of 2016, covering more than 80% of the German population and more than 90% of German highways
- State-of-the-art, nationwide wireless data distribution infrastructure, e.g. for TPEG services
- > Find out more about our wireless data distribution services www.media-broadcast.com/data

















Radioscape's Digital Radio monitoring product range includes the new Field Monitor, a compact USB DAB receiver that has been designed for comprehensive mobile measurements. The Field Monitor is an ideal device for monitoring RF signals and programme content. Typical applications include quality of service and coverage checks for broadcasters, network providers and regulatory authorities. The Field Monitor also services as a flexible reference tool for designers and manufacturers of automotive receiver modules and antennae. Since 1997, Factum and Radioscape have been delivering innovative, reliable and cost-effective products for Digital Radio, including encoding and multiplexing systems, monitoring & analysis products and voice break-in systems for tunnels.



Fabbrica Italiana Accumulatori Montecchio Maggiore (FIAMM S.p.A.) is a family owned Italian company with headquartered in Montecchio Maggiore Northern Italy. The company created in 1942 employs 3,000 people worldwide. FIAMM produces and sells lead batteries for both Automotive and Industrial application and is the world leader supplier of horns to most automotive customers worldwide. Thanks to massive R&D investment FIAMM is now expanding its activities with several new products: Sodium Nickel batteries for motive and power storage, Oled for automotive and furniture application, Smart Antennas with two applications for Digital Radio: SM11 and the brand new SM20.



Since 1997, the Innovationszentrum für Telekommunikationstechnik GmbH IZT provides equipment for signal generation, receivers for signal monitoring and recording, transmitters for digital broadcast, digital radio systems and channel simulators. The DAB-specific product portfolio includes the IZT DAB ContentServer – a highly reliable professional broadcast system for DAB. It combines audio encoding, data service management and ensemble/service multiplex generation in one device. Its reliability has permanently been proven in numerous DAB head-end installations. In addition, the IZT's signal generators and RF monitoring receivers are powerful laboratory tools, for example for DAB signal analysis or for the development of DAB receivers.



Pure is a world leading consumer electronics manufacturer and leads the way in music streaming and radio systems, multiroom audio and entertainment cloud services with the Pure Connect portal www.pureconnect.com as well as innovating in new areas. Designed and engineered in the UK, all of Pure's products are manufactured with the environment in mind and at ethically audited facilities. Pure is a division of Imagination Technologies Group plc. See www.pure.com.



Radio X is Belgium's only English-speaking radio station – the first commercial, independent radio service, established in 2013. Initially internet based, with inspired vision and goals, it will soon be broadcasting on DAB+ from Summer 2015 from the heart of Europe's capital – Brussels. Radio X plays a key role in engaging, entertaining and informing the international expat community, plus those visiting the country for tourism. The radio station is a vitally important bridge for this growing audience sector and the local Belgian population/commerce, helping connect both. www.radiox.eu Email: director.brandmarketing@radiox.eu



The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, secure communications, cybersecurity, radiomonitoring and radiolocation. Founded more than 80 years ago, this independent company has an extensive sales and service network and is present in more than 70 countries. The electronics group is among the world market leaders in its established business fields and has approximately 9,800 employees. It achieved a net revenue of EUR 1.75 billion in the 2013/2014 fiscal year (July to June). The company is headquartered in Munich, Germany.



...digital radio on the move



Seamless **DAB** Integration

AutoDAB-SWC interfaces allow plug and play Digital Radio integration with your OEM head unit. Digital Radio can be controlled directly from the steering wheel controls.



Features

- Plug and Play installation
- Stores favourite stations
- 100's of new radio stations
- No box on view
- No wires on view
- Fully integrated
- Maintains FM stations
- Controlled from Steering wheel controls
- Uses car's current display
- Voice prompt menu system
- Displays: radio text, song & artist information









The AutoDAB GO DAB receiver is a Universal Digital Radio receiver and display with integrated Bluetooth features. With compatibility across all vehicles the AutoDAB GO is the quick, easy, simple solution to get Digital Radio in your vehicle.

Features: Listen to unique stations in Digital Audio via 3.5mm Aux out, automatic tuning and selection by station name, effortlessly stream music via Bluetooth.



The AutoDAB Smart connects to your smartphone to give Digital Radio in any car. It is a plug and play solution that you can fit yourself in minutes. The station logo, name, song and artist information is displayed on your phone. Digital music is played through your car stereo system via the 3.5 mm jack. Slide-show images are also displayed if transmitted by the radio

AutoDAB Partners







































Speakers

Hans Christian Andersen, Chief Executive Officer, Sahaga AS, Norway



Hans Christian Andersen used to be a radio and TV host with NRK and TV2. He has been involved with digital radio in Norway since 1999. Hans also is involved with MediaDAB, through his company Digitus Nordic.

Jacqueline Bierhorst, Project leader, Digital Radio+ Network, The Netherlands



Jacqueline Bierhorst has been a pioneer in commercial radio since 1987, specialising in distribution, marketing and content, she has become an all-rounder. She has a strong track record in launching and leading successful commercial television and radio channels in The Netherlands and Belgium. Since 2011 she has been project leader on the roll out of the Digital Radio+ Network in The Netherlands for all commercial broadcasters, which was launched the 1st of September 2013. In this role she is closely involved also in the cooperation between public and commercial broadcasters on behalf of the joint roll out and marketing of DR+ in The Netherlands.

Arjen Bongard, Editor-in-Chief, automotivelT International



Arjen Bongard is Editor-in-Chief of automotiveIT International. He is a seasoned business journalist with more than 30 years of experience covering news stories across all industries and markets. Earlier, Arjen was editor-in-chief of Automotive News Europe. Arjen started his media career at Dow Jones & Company and worked for the business news publisher in various roles. He served as an international news executive in London with responsibility for European and Asian news operations. Earlier, he was a a foreign correspondent in Stockholm and Bonn, Germany. While stationed in Bonn in the late 1980's and early 1990's, he covered the reunification of Germany and the lengthy negotiations that led to the introduction of the euro. A citizen of the Netherlands, Arjen

has a Master's degree in Journalism from the University of Michigan. He did undergraduate work at the University of Amsterdam in the Netherlands.

Renaud Casès, Broadcast radio officer, Conseil Supérieur de l'Audiovisuel (CSA)



Renaud Casès currently works as a broadcast radio officer at the Directorate for audiovisual operators of the Conseil Supérieur de l'Audiovisuel (CSA). His duties include drafting calls for tenders and handling administrative matters in the field of digital radio. He is part of the team who worked on the digital radio report, adopted by the CSA in January 2015. Renaud joined the CSA in January 2009 as head of the Clermont-Ferrand regional office. He is a graduate from Bordeaux and Toulouse law schools.

Mathias Coinchon, Senior Project Manager, Media Technology & Innovation, EBU



Mathias' activities concentrate on hybrid and digital radio, open source in broadcasting. Mathias is Vice-Chairman of the WorldDMB Technical Committee and Secretary of RadioDNS. He has a M.Sc. degree in Communication Systems Engineering from EPFL, Switzerland, and the Eurecom Institute in France. He developed his diploma thesis at BBC R&D on Digital Radio Mondiale. Before joining the EBU, Mathias worked for the Swiss broadcasting corporation (SRG-SSR/RSR) on networks and the re-launch of Digital Radio in Switzerland. As a side activity, Mathias is President of the non-profit organisation opendigitalradio.org maintaining an open source solution for local DAB+ broadcasting.

Lindsay Cornell, Principal Systems Architect for the BBC's Future Media division and WorldDMB Technical Committee Chairman



Lindsay leads the work on 'The Future of Radio' which provides technical leadership to the development of radio technologies that will maintain and extend the reach of the BBC's radio services, both in the UK and across the globe. The work is highly collaborative, partnering with a wide range of industry groups. Lindsay has considerable knowledge of creating standards though his work as a Specialist Task Force leader at ETSI and his roles as Chairman of the World DMB and DRM Technical Committees. Lindsay brings a rare combination of scientific understanding, technical experience, project management and people skills to bear upon the topic of global radio development.

Gunnar Garfors, President of IDAG and Advisor on radio distribution at NRK



Gunnar Garfors heads International DMB Advancement Group (IDAG), an organisation promoting digital radio via DAB+ and mobile TV via DMB, world-wide. He often presents or debates radio at media conferences around the world. Garfors is originally a journalist, but he has worked with media technology since 2001. The 39 year-old is an avid traveller and author, and he even visited all the world's countries and continents. That resulted in "198", a book about the journeys. More on garfors.com and Twitter: @garfors

Patrick Hannon, VP Corporate Development, Frontier Silicon and President, WorldDMB



Patrick Hannon is Vice President Corporate Development at Frontier Silicon, the leading provider of technology solutions for digital radio. He was elected President of WorldDMB in November 2013. His role is to work with policy makers, regulators and industry players (including public and private broadcasters, network operators, device manufacturers, retailers and automotive manufacturers) to ensure that digital radio is successfully rolled out in as many territories as possible. Before joining Frontier Silicon, Patrick was a strategy consultant focused on broadcast and digital media. Previously, he held senior strategy and commercial roles at the BBC and BBC Worldwide.

Laurence Harrison, Technology and Market Development Director, Digital Radio UK



Laurence Harrison is Market Development Director at Digital Radio UK (DRUK). Main responsibilities include working with the vehicle industry to ensure line-fit of digital radio and development of aftermarket equipment, managing the launch of the minimum receiver specifications and the introduction of the digital radio tick mark and working with manufacturers and retailers to grow the market for digital radio. Prior to joining DRUK Laurence worked for trade organisation techUK, representing radio manufacturers. Laurence was also a Director on the Board of Digital UK, the organisation that managed the digital TV switchover in the UK.

Michael Hill, Managing Director, Radioplayer



Michael Hill is Founder and Managing Director of UK Radioplayer Ltd, the non-profit joint venture created by the BBC and Commercial Radio to develop radio on connected devices. Within 18 months of launch, their web player helped grow online listening by 44% year-on-year. Radioplayer has also launched 'radio discovery' apps for mobile and tablet, and is now prototyping hybrid radios for cars. Their technology is licensed to 5 European countries, with more to come. In past lives, Michael has worked at Channel 4, managed BBC Radio 5live, led a strategic review of the BBC Asian Network, and produced Newsbeat on BBC Radio 1.

Erwin Kirschner, Director Technical Affairs, ACEA



Erwin Kirschner is the Director of Technical Affairs in the European Automobile Manufacturers' Association (ACEA), a position he has held since January 2013. ACEA brings together all major manufacturers of passenger cars, vans, trucks and buses with production in the EU, including BMW AG, Daimler AG, DAF Trucks, Fiat Chrysler Automobiles, Ford of Europe, Hyundai Motor Europe, IVECO, Jaguar Land Rover, Opel Group, PSA Peugeot Citroën, Renault Group, Toyota Motor Europe, Volkswagen AG, Volvo Car Corporation and AB Volvo. Prior to his ACEA appointment, Mr Kirschner worked for Daimler Ag, where he started his career in 1988 and occupied several positions in different areas of development and after sales of passenger cars, and commercial vehicles. As

a German national he graduated from Technical University Darmstadt as a mechanical engineer (Automotive).

Olaf Korte, Head of the Broadcast Applications Group, Fraunhofer IIS



Olaf Korte, head of the Broadcast Applications Group at Fraunhofer IIS. His main focus is on standardisation and implementation of the digital radio standards DAB and DRM. For the past 20 years, Olaf and his team have been working on applications, encoders and decoders for all parts of the digital radio broadcast chain. This includes multiplexer head-end solutions, chipset components and receiver implementations. In addition, the Broadcast Applications Group offers consulting and project planning to our customers.

Eugenio La Teana, Head of Research & Development, RTL 102.5 Hit Radio



In addition to his role at RTL 102.5 Hit Radio Eugenio is actively involved with EuroDab Italia and on a Digital Radio Task Force, the main objective of which is to co-ordinate the roll out of digital radio in Italy. Since joining RTL 102.5 Hit Radio in 2002, Eugenio has worked on creating interactivity through television which became 102.5 Hit Channel and later worked on discovering new ways of integrating radio-tv-internet and mobile phone. Following this, Eugenio returned to radio, launching the Traffic Message Channel on the RTL network. Today Eugenio is one of the best known European experts on "Services over DAB network". He continues to work on the launch of Mobile TV over T-DAB (T-DMB).

Roger C. Lanctot, Associate Director, Strategy Analytics



As Associate Director in the Global Automotive Practice at Strategy Analytics, Roger has a powerful voice in the definition of future trends in automotive safety, powertrain, and infotainment systems. Roger draws on 25 years' experience in the technology industry as an analyst, journalist and consultant. Roger has conducted and participated in major industry studies, created new research products and services, and advised clients on strategy and competitive issues throughout his career. Some consider Roger the 'Kevin Bacon' of the connected car industry as evidenced by his wide LinkedIn and Twitter following and his frequent speaking and blogging activities on critical industry issues impacting critical topics such as vehicle safety, fuel efficiency and traffic.

Roger is a graduate of Dartmouth College.

Nick Piggott, Chair, RadioDNS Project



Nick has spent the majority of his career working in the commercial radio industry, initially in programming and then moving to digital radio and online. He created and led a highly regarded multi-skilled team which launched the world's first commercial digital radio stations, and then went on to consistently deliver technology driven innovation, including interactive text message services, music downloading, mobile and multi-platform applications, and visualised radio services. The team won numerous awards for innovation. Nick is one of the founders of RadioDNS Hybrid Radio, an open technology project that lets broadcast radio and IP work together, combining the power of broadcasting to reach many people and the power of the internet to deliver enhanced

or personalised content. RadioDNS Hybrid Radio creates a modern app-like experience of broadcast radio. Find out more about RadioDNS at www.radiodns.org. As both a passionate advocate of radio and a highly regarded conference speaker, Nick talks globally about the opportunities for radio in the digital world.

All in one — one for all R&S®BTC

- Video/Audio end-to-end tests
- Stimulus and analysis
- Complete test environment
- Modular and scalable

Find the optimum solution for you. www.rohde-schwarz.com/ad/btc

















Agneta Ronceret, Marketing Director, V-Traffic Services, Mediamobile



Agneta Ronceret, European Marketing Director for VTraffic Solutions at Mediamobile, is focused on bringing smart Traffic and Mobility Information Services to the automotive and media industries, through RDS, DAB and Connected technologies. Agneta previously served as Marketing Director in France for Garmin, the global leader in GPS navigation, where she built strong brand recognition in the French retail and automotive markets. She also held various marketing positions at Palm Europe, manufacturer of handheld computers and a pioneer in the smartphone market.

Dietrich Schirm, Director ICT and Telecommunication Division, Bavarian State Ministry for Economic Affairs and Media Energy and Technology



Dietrich Schirm has been Director of the Industry and Telecommunications Division of the Bavarian State Department of Economic Affairs and Media, Transport and Technology since 2008. Prior to this, he was Deputy Director of the Energy Policy Division from 1995. He has also worked for the private industry, having worked as a Project Manager of plant engineering at Mannesmann AG, Düsseldorf, and as Project Manager of Equipment, Information Technology and In-service support at the Federal Office of the German Armed Forces. He has a Diploma in electrical engineering from the University of Erlangen, Germany.

Tobias Wallerius, Global Hardware Architect / TP Digital Radio, Visteon



Tobias studied Communications Engineering and Computer Science. Since 2006, Tobias has worked at Visteon (an automotive Tier 1 supplier) as a Systems and Hardware Engineer for digital radio products. During his time at Visteon, Tobias has worked on standardising and promoting Digital Radio in various (automotive) consortia and working groups. Today Tobias is a global hardware architect at Visteon and responsible as the technical lead for advanced Digital Radio architectures (DAB/DRM/Hybrid Radio/Internet Radio).

Thomas Wächter, Head of Product Management Business Unit Radio, Media Broadcast GmbH



Thomas Wächter, studied electrical engineering at the University of Braunschweig between 1981 and 1986 before joining the research institute of Deutsche Telekom in Darmstadt. Since 1992 he has been assistant director at the headquarters of Deutsche Telekom in Bonn responsible for the development of digital, terrestrial broadcasting platforms. He is currently responsible for the product management of terrestrial audio broadcast networks within Media Broadcast GmbH. Thomas Wächter is member of the WorldDMB Steering Board.

Ernst S. Werder, Managing Partner, MCDT



Ernst S.Werder has over 20 years of sales and marketing experience in a number of management positions in Switzerland and abroad, including several years as an executive board member and managing director. He was at SRG SSR for 10 years as Head of Engineering and as Director of production and broadcasting equipment at SR DRS. Since 2006, he has been Project Manager for the commercial launch of DAB / DAB+ at SRG SSR.



We provide your complete

DAB+ Headend

Encoders, Multiplexer based on FhG ContentServer technology
EDI/ETI Converter/Switch,
Monitoring Decoder & DAB Analyser









DAB Tunnel Break-in Rebroadcast System

- Receiver/Demodulator
- Modulator output
- Replacement of all subchannels in case of emergencies
- Integrated Monitoring Decoder
- Optional break-in via VoIP







About WorldDMB

orldDMB is responsible for defining the digital radio standards DAB and DAB+ for digital radio.

Our goal is to promote the standard around the world. We work with sound and data broadcasters, network providers, car, receiver, chip and equipment manufacturers, governments and official bodies to encourage international co-operation and a smooth, coordinated roll-out of services.

Through our network of more than 85 companies and organisations from across the industry and from over 25 countries, WorldDMB is in the best position to assist the transition from analogue to digital radio.



MEMBER BENEFITS

Global Contact Database

- commercial and public broadcasters
- chip, receiver and equipment manufacturers
- network operators
- regulatory bodies
- automotive manufacturers (OEMs, Tier 1s, Tier 2s)

Market Intelligence

- country rollout plans
- coverage maps
- industry news
- Eureka! member newsletter

Industry Events

- free registration to WorldDMB events
- speaking opportunities
- free or discounted exhibition opportunities
- discounted admission to industry events
- opportunity to distribute promotional material

Support to Broadcasters

Advice on switching from analogue to digital radio

- regulation
- technical trials
- best business case scenarios
- licensing
 - marketing
- network build out
- production of new digital radio content
- At WorldDMB we join the community that is shaping the experience of digital radio for the next decades. We understand digitisation is not just a change of technology, it will deeply affect the way listeners use radio and what they expect from it. As a manufacturer in the automotive industry, maintaining a strong hold on radio is of vital interest to us and WorldDMB is our key to the technology. //

Andreas Goršak, JVC Kenwood Corporation, Germany (automotive audio manufacturer)



Business Development

- advertising opportunities in WorldDMB publications and at industry events
- sponsorship opportunities
- targeted networking opportunities

Technical Information and Support

- advice on regulatory and spectrum issues
- ETI files and guidance on trials and testing
- opportunity to shape the development of future applications
- automotive sector specific technical information

WorldDMB Committees

- attendance at Committee meetings
- access to all Committee documents
- opportunity to join Task Forces and influence the industry

Resources

- ETI Library
- GfK Statistics quarterly/market growth
- presentation and document library
- exclusive member document sharepoint



If Broadcasters are facing unprecedented competition for their spectrum and their audiences. Working through WorldDMB with chip and receiver manufacturers, spectrum planners and broadcasters throughout the world ensures innovation and best practice is developed and shared. WorldDMB members can be assured that free to air radio has an exciting digital future. If Joan Warner, Commercial Radio Australia

WorldDMB Committees – Involving Members

Only WorldDMB members can join and attend WorldDMB Committee meetings and access all current and past committee documents. The committees provide opportunities for international networking, sharing information and skills and making valuable professional business contacts. They are core vehicles for issue-based interaction on technical, regulatory and spectrum issues. The committees are member-led and self-managed, each with its own programme of meetings, task forces and internal communications.

WorldDMB Technical Committee

- oversees the standardisation of the DAB family of standards
- ensures that receiver equipment and broadcast technologies are compatible
- upgrades and advances the standard in line with technical developments
- looks to the future-proofing of receiver and broadcast equipment

WorldDMB Regulatory and Spectrum Committee

- lobbies to ensure the availability of sufficient frequencies for digital radio
- identifies problems related to frequency availability and works to resolve them
- provides guidance on what works best in the regulatory framework



II The principal benefit of being a member of WorldDMB is networking, you meet people here who have done what you're thinking of doing already, you want to learn from their experiences, avoid their mistakes and build on their successes. II Phil Laven, European Broadcasting Union, Switzerland

WorldDMB Member Representatives – Linking the Experts on Digital Radio

Member Representatives are the backbone of WorldDMB membership. They are key staff from member organisations involved in digital radio – country or regional managers, sales, technical, strategic, marketing, and press who are connected to the WorldDMB network. Member representatives receive regular industry updates, discounted or free registration to WorldDMB events and access to valuable members only information via the WorldDMB website.



WorldDMB Asia Pacific Committee

- supports the implementation of digital radio in the Asia Pacific region
- advises on regulation, licensing, technical trials, network build out, marketing and production of new digital radio content
- offers information on business case scenarios, retailers & manufacturers, affordable receivers, marketing and PR strategies

WorldDMB Events

Facilitating exchange on best practice for rollout of digital radio

Every year WorldDMB organises over 20 events, conferences, tailored workshops and seminars bringing together industry stakeholders for information exchange and valuable networking opportunities. These include the WorldDMB General Assembly, our automotive workshops in Europe and Asia Pacific and several digital radio workshops that are a part of the industry's major global events and exhibitions (IFA, GSMA, IBC, Telematics Munich, Broadcast Asia). Through these events WorldDMB offers members the opportunity to share best practise, sponsor and promote their products and services.

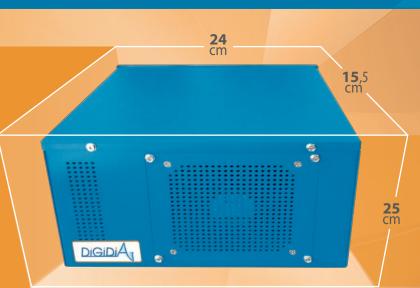
www.worlddab.org





DAB Testing as COMPACT and FLEXIBLE as never before!

DIGIDIA's new DAB DAB+ DMB test platform suitable for:



EasyDAB

Test Multiplexer with RF or EDI/EDI output

Test all DAB features in one box with live RF output!

DAB/DAB+ audio with DL/DL+, DMB audio & video, TEPG, EPG, BWS, Journaline, Service Following & Linking (including ASF), Announcement Support & Switching
And also: ETI player&recorder, multiple multiplexer with multiple RF outputs

& EasySPY

DAB RF Monitoring Receiver

Save complete live DAB ensembles into ETI or IQ files!

And also: Audio decoding (DAB, DAB+,DMB), ETI Metrics, RF Metrics in Band III with display of MER, CIR, spectrum, PAPR(Crest Factor) and constellations, optional: SFN Monitoring (CIR&TII with GPS temporal position)

Common Features: SNMP (MIB V2), Web Server, NTP Server (optional) with GPS HW module

ABOUT DIGIDIA

DIGIDIA has emerged as one of the leading companies for digital radio transmission equipment with more than 300 digital radio equipments deployed all over the world in three technologies: Synchronous FM, DAB/DAB+/DMB (Eureka 147) and DRM 30/DRM+, all covered with with a broad and complete product line including multiplexers, contents ervers, modulators, IP gateways, monitoring equipment, professional receivers, encoders, decoders and

tunnel break-in products.

DIGIDIA leads the way with its straight forward design for innovative, compact and flexible products. All products are IP based and contain the latest COFDM and Software Defined Radio technology on state of the art PC and FPGA/DSP platforms. Recent projects include major digital radio deployments in France, India and South Africa.

WorldDMB Members















































































































































































