



# DAB+ SOLUTIONS



WE TAKE CARE OF YOUR AUDIO.

## **2wcom's DAB+ product range enables broadcasters to use existing legacy as well as IP-capable transmitters at the same time.**

Serving of IP accessible and inaccessible areas in parallel is possible by transmitting the DAB+ signal precisely synchronized via IP and SAT.



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## FlexNsert+

DAB+ distribution inserter

› Starting from page 4

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## FlexXtract+

DAB+ distribution extractor

› Starting from page 9

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## A30

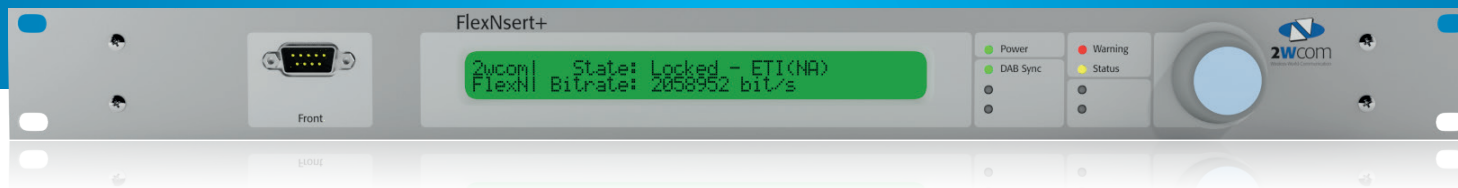
Monitoring receiver

› Starting from page 16

- › The Product
- › The Features
- › The Facts

**DAB+ distribution inserter** forwards the incoming EDI via IP or converts the DAB+ data stream into a standard MPEG-2 TS and outputs it via its transport stream interfaces (IP / ASI).

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## TECH FEATURES



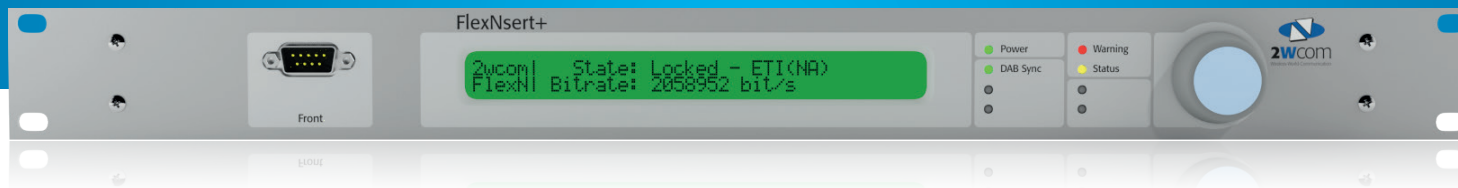
Hybrid SAT / IP



Highly  
economical



Smart  
management

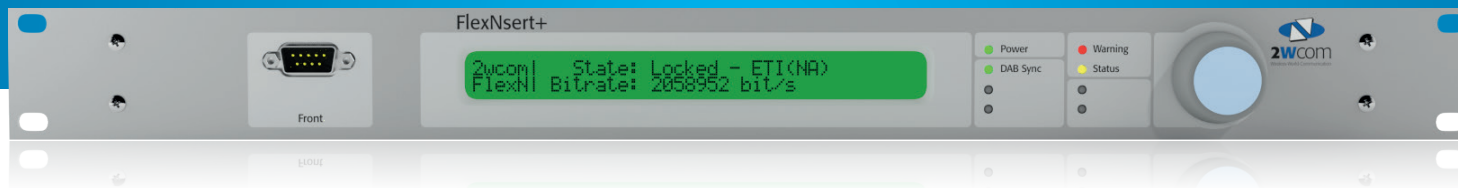


# TECH FEATURES



## HYBRID IP / SAT

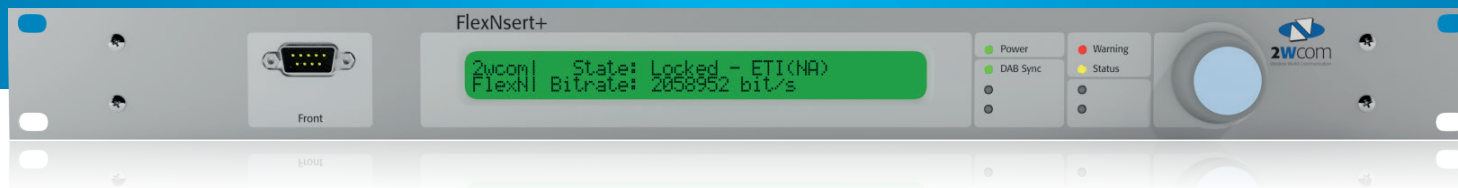
- > Distribution in parallel and precisely synchronized over IP and SAT.





## HIGHLY ECONOMICAL

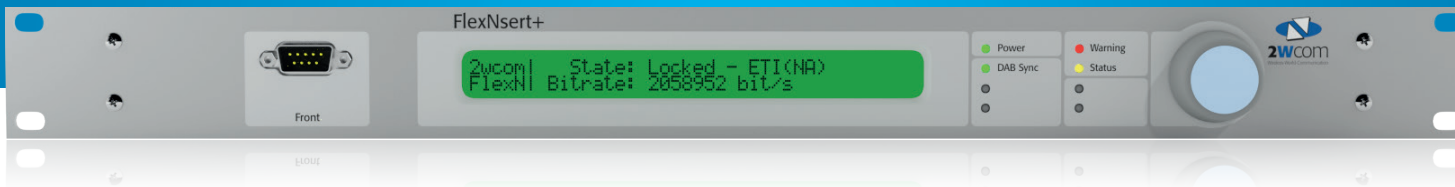
- > "FlexOptimized Bandwidth Saving Technology" reduces of up to 45% of bandwidth (ETI).
- > Operating of legacy and new IP-capable transmitters at the same time.





## SMART MANAGEMENT

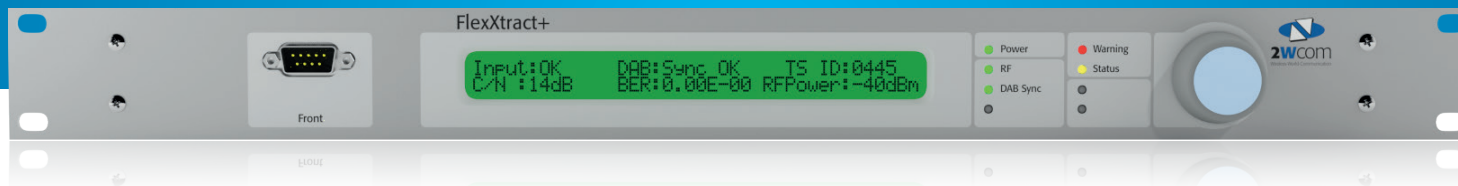
- > Fully remote control of all parameters via web interface.
- > Simultaneous fleet control of a high number of units using SIRC Server (Satellite In-band Remote Control).
- > Easy settings setup via web interface.





**DAB+ Distribution Extractor** receives an incoming DAB+ data stream via IP or via DVB-S / S2 and forwards it directly to the transmitter or demodulates it into a standard ETI-signal.

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## TECH FEATURES



Hybrid SAT/IP



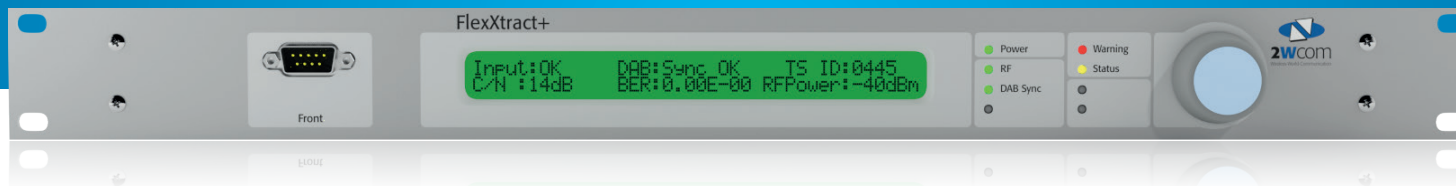
Highly  
economical



Transmission  
robustness



Smart  
management

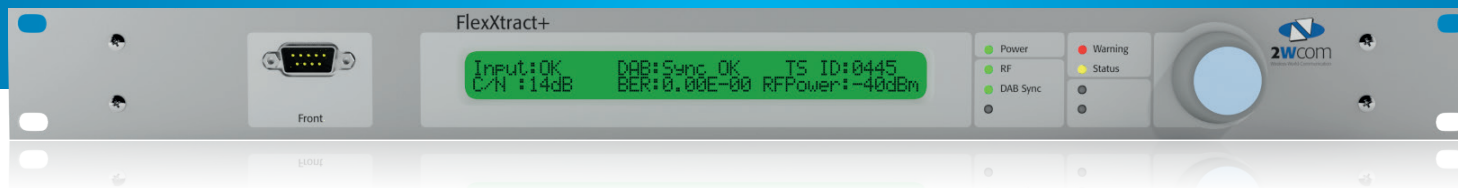


# TECH FEATURES



## HYBRID IP / SAT

- > Distribution in parallel and precisely synchronized over IP and SAT.

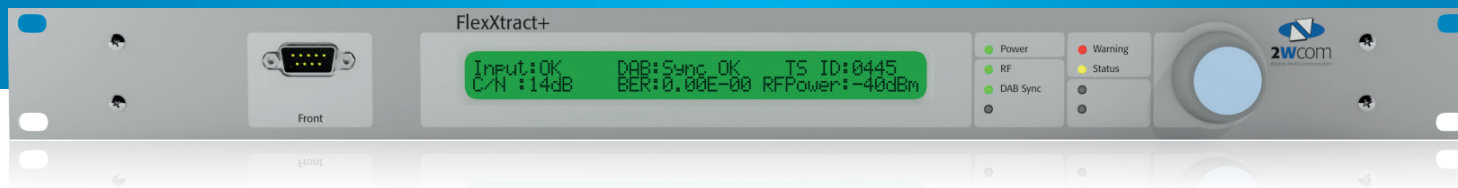


## TECH FEATURES



### HIGHLY ECONOMICAL

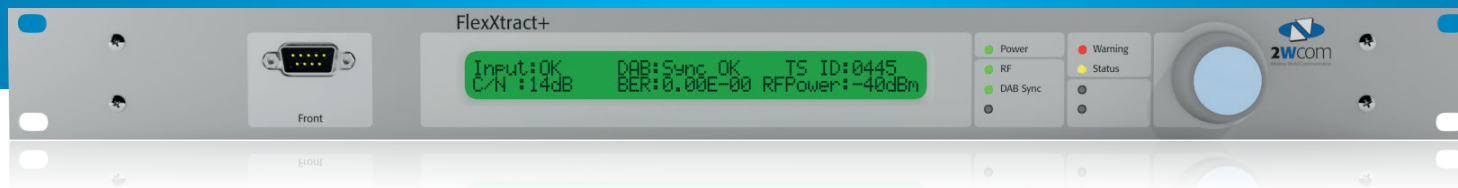
- > Operating of legacy and IP-capable transmitters *at the same time.*
- > Provides second output for redundancy.  
*Hence, no second unit is needed.*





## TRANSMISSION ROBUSTNESS

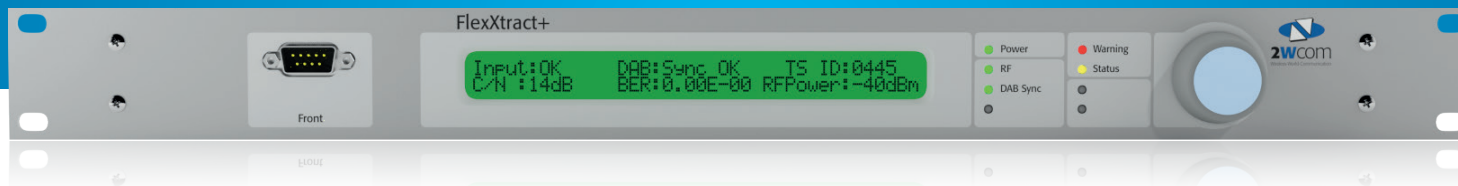
- > Forward error correction (EDI-FEC) enables reconstruction of lost data packets.
- > Packet reordering by sorting incoming data packets into original order if the IP network swaps them.
- > Seamless switching to a second incoming IP stream if the main stream fails for some reason.





## TRANSMISSION ROBUSTNESS

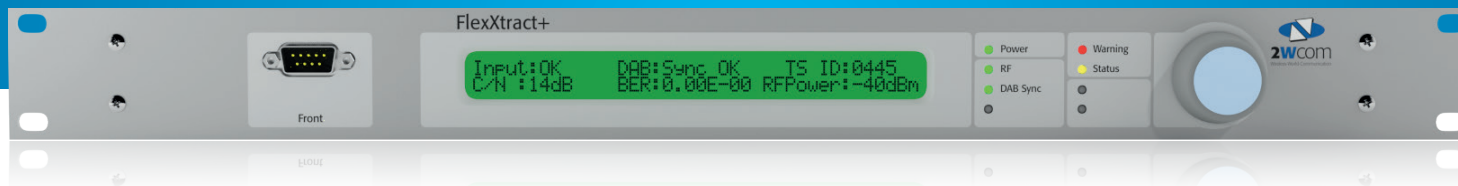
- > Time scrambling of data packets over a defined period to protect the stream like a swarm against transmission failures.
- > Automatic switch to the satellite backup if the main stream fails for some reason.





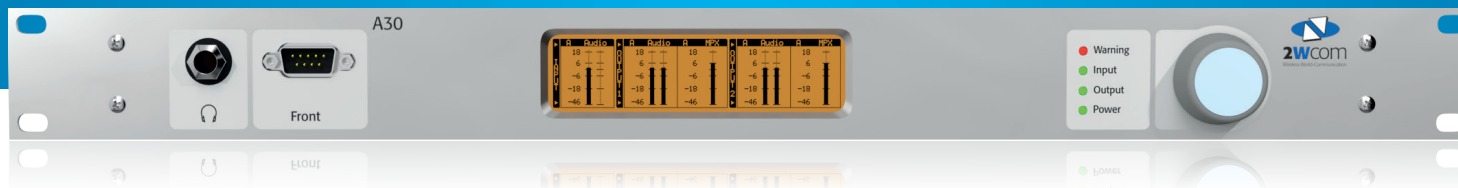
## SMART MANAGEMENT

- > Fully remote control of all parameters via web interface.
- > Simultaneous fleet control of a high number of units using SIRC Server (Satellite In-band Remote Control).
- > Easy settings setup via web interface.



A30

**Monitoring receiver** for DAB+ and FM, equipped with one DAB tuner and a double FM tuner.





## TECH FEATURES



Flexible in  
application



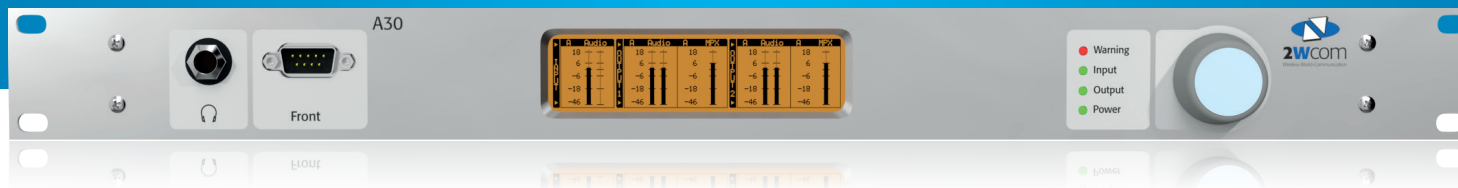
Hybrid  
DAB+ / FM / Audio



Highly  
economical



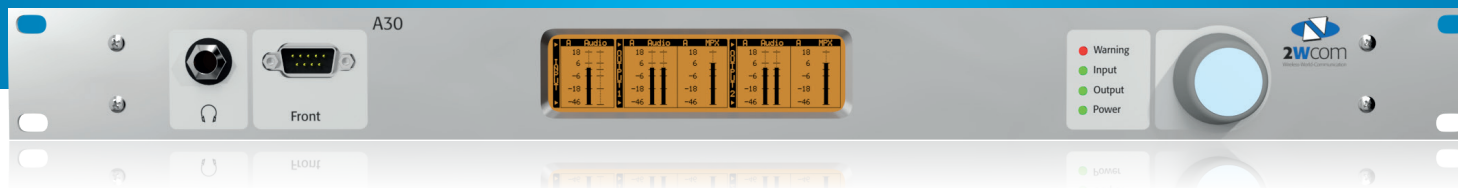
Smart  
management





## FLEXIBLE IN APPLICATION

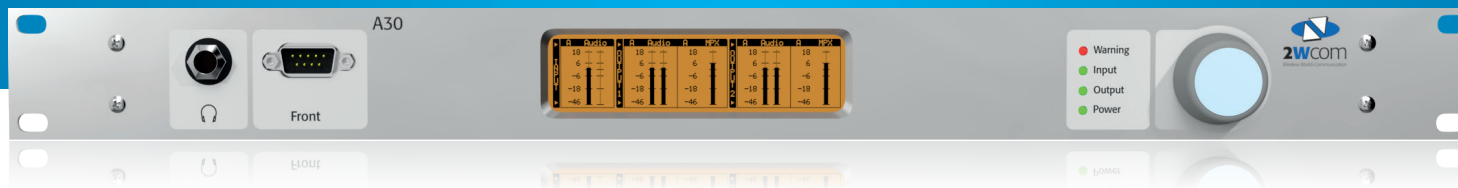
- > DAB+ Explorer visualizing the complete ensemble content.
- > Comprehensive functions for decoding and monitoring DAB+ service content including audio and categorized Slideshow.





## FLEXIBLE IN APPLICATION

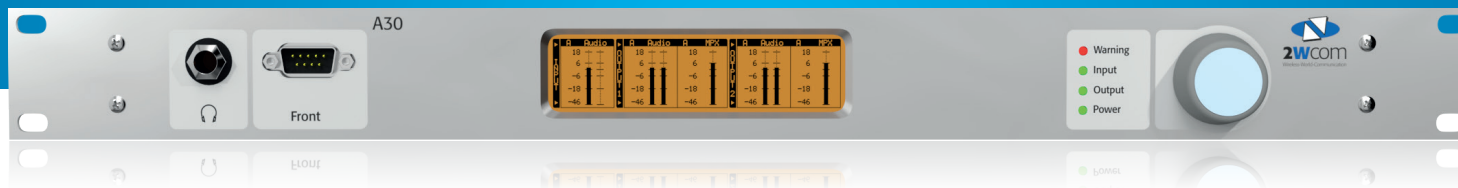
- > High quality MPX measurement of MPX power and peak deviation including graphical presentation, monitoring and archiving.
- > Comprehensive functions for decoding and monitoring the main DAB+ and FM / RDS parameters.
- > FM rebroadcast receiver for retransmission of full MPX or Audio and dynamic RDS data.





## HYBRID DAB+ / FM / IP+

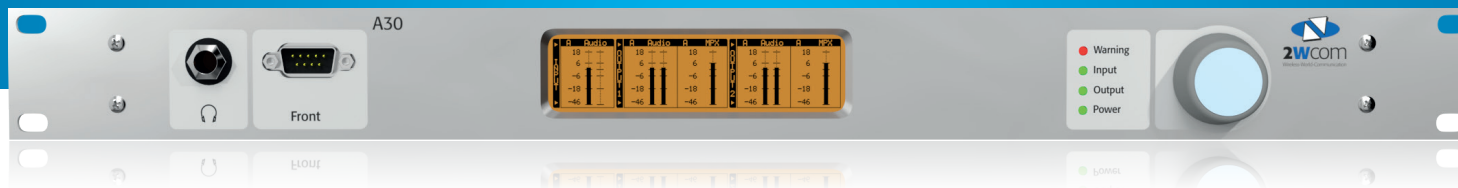
- > Simultaneous operation of DAB+ and FM  
Completely independent and parallel DAB+ and FM functionality.
- > Intelligent Silence Detection  
Audio monitoring including all tuner sources and external audio input.





## HIGHLY ECONOMICAL

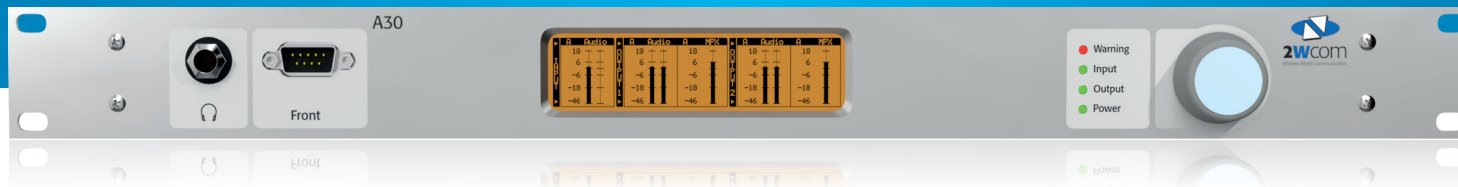
- > Monitoring of FM and DAB+ content at the same time with only one device saves costs and rack space.
- > Double FM tuner for simultaneous monitoring of two stations or up to 30 in round-robin scan mode.





## HIGHLY ECONOMICAL

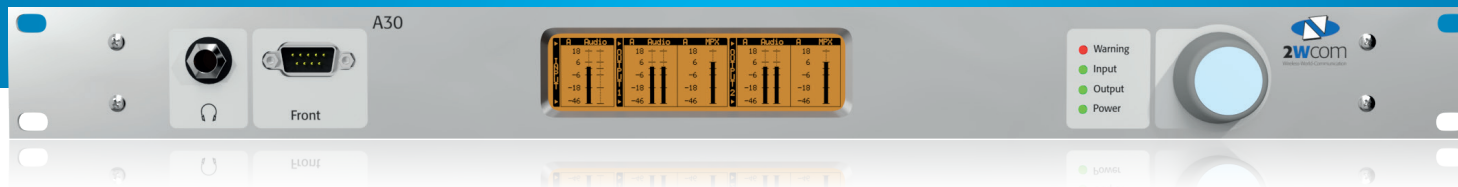
- > Measurement and control of the MPX signal peak deviation and power to avoid in getting any penalties with the regulation authorities.
- > Future-proof  
Activate the second FM tuner or upgrade the DAB+ tuner later on.





## SMART MANAGEMENT

- > Easy setup and control via intuitive web interface and SNMP
- > Frequency band scan for quick search and configuration of the monitoring stations.

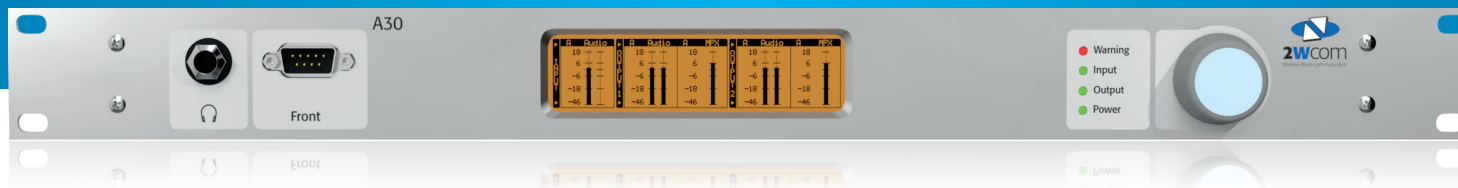






## SMART MANAGEMENT

- > Management solution for an A30 network allowing to listen to all stations from a centralized point with audio recording functionality.





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