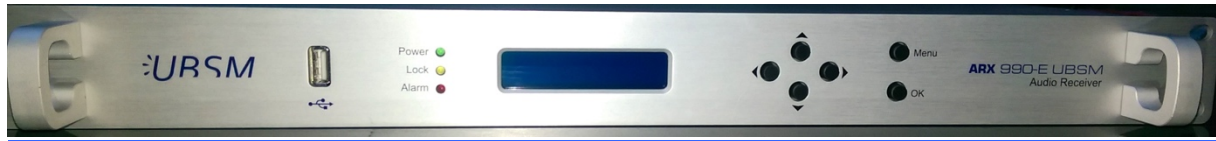


ARX990E Audio Receiver with digital output



Features

Narrow band audio & RDS transmission

Designed for commercial radio stations
Supports both SCPC (Narrow band) and
MCPC (Multi Channel Per Carrier)
Excellent quality of stereo audio and
RDS Data transport
According to DVB standard
AES/EBU

Mainly for the broadcasting side, audio consumes much lower bandwidth regarding to the video transmission. For audio-only applications, it is very cost efficient to use small bandwidth for SCPC, even for MCPC. By the way, audio broadcasters will be able to make their own transmission by themselves. But the essential challenge is, traditional digital audio-video receivers are not capable to receive such kind of signal.

The ARX990 has been designed for narrow-band professional audio applications. It is therefore capable of offering an unrivalled combination of performance and level of features.

The ARX990 can be integrated with control system enabling the receivers to be remotely from a central location – simplifying the system control structure and reducing the need for costly on-site local operators.

The product is developed with user friendly menu, and the controls are grouped for same class of purpose. Menu time-out and menu-lock features provide the protection of device for any accidental change on the settings, also unauthorized adjustments for the operation.

The last settings are stored to the memory, to start the product automatically with these settings if any fault at the mains power line. For reliable system operation and functionality, there are protections such as watchdogs, both software and hardware.



Technical Specifications

RF Characteristics

Input Signal	: QPSK (SCPC or MCPC)
Input Connector	: F type (female), 75 Ohm
Frequency Range	: 950-2150 MHz
Symbol Rate	: 128ksymb/s – 1500ksymbol/s
FEC Coding	: 1/2, 2/3, 3/4, 5/6, 7/8 (automatic selection)
LNB Power	: 13/18V or Off
22KHz Tone	: On/Off
Diseqc	: 1.1
Input Level	: -65dBm to -25dBm

Analog Audio Characteristics

Decoding	: MPEG-1 Layer I, II
Mode	: Mono, Dual Mono, Stereo
Sampling Rate	: 32, 44.1 and 48KHz
Output Control	: max. +18dBu (@600Ω, adjustable in 2dB steps)
Connectors	: Dual XLR type (male)
Output Type	: Balanced
Frequency Range	: 20Hz to 15KHz
Harmonic Distortion	: < 1%
S/N Ratio	: > 60dB
Crosstalk	: > 60dB

Data Output (RDS)

Data Channel	: RS232 up to 115.2kbps
Connector	: DB-9 (Male)

Control & Monitoring

Front Panel Keypad	
LCD Display	: 2x16 Characters
LED Indicators	: Power, Sync and Alarm

Physical & Power

Case	: 19" 1RU
Dimensions	: 1.75" H x 19" W x 9.4" D : 44.5mm (1 RU) H x 480mm W x 240mm D
Operation	: 0 – 50°C
Voltage	: 110 – 270 VAC, 50/60Hz



Cooling : Integrated fan, units may be stacked each other
Power Control : On/Off switch

Additional Options

Remote Control : Changing BISS Keys
Summary Alarm : Contact (DB-9)
Digital Output : SPDIF (Coax)

BISS Descrambling : Mode-1, Mode-E Support
Common Interface : Support of all traditional CAM modules
ASI Output : 188 byte, 270Mbit/s