



# DSP40

DAB/DAB+/FM tuner

## Highlights:

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- Balanced stereo line output
- 2.8" LCD display with intuitive user interface
- DAB/DAB+/FM support
- RDS / radiotext station information
- Manual & auto tuning
- F-type antenna connection
- Preferential station storage
- Signal strength indication
- Front panel & RS-232 remote control



## Additional Inputs:

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The DSP40 is a professional DAB/DAB+ & FM tuner which provides access to a wide variation of radio stations while guaranteeing a high-quality audio reproduction. Station selection can be done manually or automatically, while up to 10 preferred channels can be internally stored and recalled. The front panel of the system accommodates a 2.8" TFT display in combination with a push rotary function dial and 4 tactile pushbuttons. The controls and indicators on the front panel of the unit are guaranteeing an intuitive and user friendly operation, allowing hassle free operation and configuration to even unexperienced users. Information such as radio station information carried by RDS / Radiotext and signal reception strength are indicated. The signal output level is user configurable while dynamic range compression (DRC) is supported, improving the intelligibility for low volumes in applications with high levels of background noise. Other functions such as mono/stereo (FM) switching always guarantee the best possible audio reception. The antenna input is implemented by an F-type connector allowing connection of the included antenna cable or any other external antenna using 75 Ohm coaxial cabling. The balanced stereo line output is connected through two 3-pin terminal block connections. The RS-232 communication port allows system integration with any home or industrial automation system, while an optional 2.4 GHz remote control allows handheld control while hidden out of sight.

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## Applications:

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- Retail
- Public facilities
- Corporate spaces
- Houses of worship
- Clubs, bars, restaurants

## System specifications:

Control			Front panel
			RS-232
Inputs			F-type antenna connection (75 $\Omega$ )
FM	Tuning Range (-10 dB)		87.5 ~ 108 MHz
	Sensitivity (1W/1m)		-108 dBm
	Signal / Noise		52 dB
	THD+N (@ 1 kHz)		0.22%
	Frequency Response ( $\pm$ 3 dB)		30 Hz - 12.5 kHz
	Crosstalk (@ 1 kHz)		26 dB
DAB	Tuning Range (-10 dB)	Band-3	171 ~ 240 MHz
		L-Band	1452 ~ 1492 MHz
	Sensitivity (1W/1m)		-99 dBm
	Signal / Noise		81 dB
	THD+N (@ 1 kHz)		0.026%
	Frequency Response ( $\pm$ 3 dB)		42 Hz - 20 kHz
	Crosstalk (@ 1 kHz)		53 dB
Outputs	Type		Balanced stereo line outputs (3-pin Euro Terminal Block (Pitch - 3.81 mm))
	Level		+8 dB ~ -32 dB
Power	Consumption		0.7 W

## Product Features:

Dimensions			482 x 44 x 330 mm (W x H x D)
Weight			3.150 kg
Mounting			19"
Unit height			1 HE
Construction			Steel
Colours			Black
Accessories	Included		Antenna cable
	Optional		ASK40S 4-way antenna splitter kit

## Shipping & Ordering:

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Packaging	Cardboard box
Shipping weight & volume	4.750 kg - 0.028 Cbm

## Architects' and Engineers' Specifications:

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The audio source shall be a professional DAB, DAB+ and FM tuner capable for a reception to a wide variation of radio stations with high-quality audio. The FM reception shall be tuneable within a range from 87.5 MHz up to 108 MHz, while the DAB/DAB+ band shall be tuneable within a range of 171 up to 240 MHz (Band-3) and 1452 up to 1492 MHz (L-Band). The selection / tuning for the radio stations shall be possible using both manual or automatic search functionalities. An internal memory shall allow storage up to 10 preferred audio channels which are easy to be recalled. The front panel shall contain an AC power switch accompanied with a blue power indicator LED. A Graphical 2.8" TFT display combination with a push rotary function dial and 4 tactile push buttons shall be implemented, guaranteeing an intuitive and user friendly experience with clear overview of the systems functions and current operation modes. Additionally carried radio station information (RDS / Radiotext) and signal reception strength shall be displayed. The signal output level shall be user (software) configurable within a range of +8 dB and -32 dB while and Dynamic Range Compression (DRC) shall be available for DAB/DAB+, improving the intelligibility for low volumes in applications with high levels of background noise. An RS-232 command port accompanied with an 'UPDATE' USB slot shall be implemented on the rear side of the unit. The RS-232 connection allows control from any home or industrial automation system, while the USB slot allows simple system updates or compatibility with optionally available RF remote control units. The antenna input connection shall be implemented using an F-type (75  $\Omega$ ) antenna connection, while the audio output is a balanced stereo line output connected through two 3-pin terminal block connectors. The audio source shall operate on a 110~240 V AC / 50~ 60 Hz mains network and shall be equipped with a removable power cord having a standard shuko (CEE 7/7) AC plug. The connector on the audio source chassis shall be a fused IEC C14 type. The chassis shall be a single rackspace steel constructed 19" housing. Depth from mounting surface to rear supports shall be 330 mm and the weight shall not exceed 3.15 Kg.