

NeuronBox NB.6 IoT Device

Industrial grade edge computing device equipped with the audio digitalisation capabilities



The Key Product Features:

- Standalone analytical IoT unit with variable acoustics sensors
- Up to 6 channel simultaneous and synchronous recording
- Edge computing software for the audio analysis based on neural networks
- Installation directly next to machine or into DIN ledge
- Records directly interpreted, transferred to cloud or store microSD on device
- Multiple audio output file types supported (WAV, OGG, FLAC)
- LAN/Wifi/LTE connectivity and Power supply (optional)

Product Description:

Sound converter:	Up to 6-channel ultrasonic analog to digital converter
Device design:	ALU chasi / stainless steel
Sensor type:	Broad range of sensors
Connectivity:	Wi-Fi , 3G/4G, Ethernet
Amplifier:	Digitally controlled gain in range from 0 to + 60dB
LED statuses:	LED signals status for each channel

Product specifications:

Dimensions:	165 x 145 x 55 mm (W x D x H)
Weight:	1200g without power supply
CPU:	4×ARM Cortex, 1.2GHz
RAM:	1 GB
Storage:	64GB - 256GB (microSD card)
USB output:	2x USB output
Power supply:	12-18V DC with 2.5A load
Power consumption:	min. 660mAh DC
Operating temperatures:	-25°C ... +70°C

Sensor types:

Audio microphones:	All types including condenser (+48V phantom powered)
Piezo based microphones with amplifier:	Frequency range 7 Hz - 30kHz (-20°C ... +70°C)
Ultrasonic sensors:	Frequency range up-to 100 kHz (-25°C ... +70°C)
MEMs accelerometers:	Dynamic range from ±1g to ±100g (-40°C ... + 130°C)

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