

Product sheet

S-Box



**Article Number: 100529 (Busses)
100440 (Trams)**

Short description:

- Compact ELA with digital announcement unit and integrated 100 V transmitter
- Automatic microphone adjustment
- Adjustments and diagnostics via Microsoft Windows on-screen menu
- High reliability and long-term stability
- Effectively integrated; thus saving space and weight
- Open audio standard MP3
- High voice and announcement quality respectively despite small storage requirement

Specification

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| Mechanical | 19" cassette, Aluminium, partial slot for 19" component assembly according to DIN 41494 |
| Dimensions (W x H x D): | 107 mm x 133 mm x 170 mm (21 TE x 3 HE) |
| Operational voltage: | 24 V DC board net, functionable at constant 18V – 32V with polarity protection |
| Maximum voltage without damage to device | 1 s at 36 V 1 ms at 100 V |
| Power input | Typically 10 W, max ca. 70 W |
| Digitalisation process | MPEG 1 Layer III ("MP3") according to ISO/IEC DIS 11172. 24 k bit/s typical |
| Announcement memory | Standard- compact flash card 64 MB, upgrade possible up to 1 GB |
| Operating environment | Temperature range -25 °C to +70 °C Humidity < 70%, short-term 100% Shock strain 30m/s ² (half sine) Vibration strain 25/f 1-10Hz, 250/f ² 10-100Hz (sine) |
| Operation elements | USER- task |
| Display elements | LEDs, specifically adjusted according to project |
| Connections, front side | 9 pole sub-D adaptor (service interface) 8 pole RJ45 Ethernet TP (WLAN possible) SD card Internal slot PCMCIA |
| NF performance | sine performance 50W at 4 Ω (1kHz, DIN) |
| Announcement texts | about 6 hours (with 128 MB memory) at high quality; depending from sampling rate |
| Distortion factor | <1% |
| Transmission range | 70Hz – 15 kHz (MP3) |
| Signal-to-noise ratio | > 54 dB |
| Unweighted signal-to-noise ratio | > 46 dB |
| Power input | Typically 0.45 A/ max. 2,5 A |
| Service interface | RS 232 |
| Network interface | RJ45 Ethernet TP |

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|---|--|
| Connection | Male connector form C and F IBIS bus connector |
| Control inputs | Digital 16 |
| Control outputs | Digital 8, 4 additional relay outputs |
| Audio matrix (input sources) | Audio files from flash memory Driver microphone (2 mV / 0 dB), AGC parameterisable Tour guide microphone 2 mV / 0 dB parameterisable On-board radio (0 dB) Radio transmitters (0 dB) |
| Audio outputs | Driver (4W); monitor (4W) ELA 50W; connection optional 4 / 8 Ohm or 100 V Switchable outdoor speakers right or left |
| GLS (noise-dependant volume control) | Programmable control features |
| Storage and transport temperature | -40 °C to +85 °C |
| Humidity | 90% non-condensing |
| Weight | 2,54 kg |

Meets the following railway standards:

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|--------------------------------------|--------------------|
| Climate-proof and shake-proof | EN 50155 |
| Electro-magnetic compatibility (EMC) | EN 50121-3-2 |
| Emitted interference | EN 55022 |
| Interference voltage (vehicle) | VDE 0879 KI 3 |
| Burst | IEC 1000-4-4 |
| ESD | IEC 1000-4-2 |
| Surge | IEC 1000-4-5 |
| Sinusoidal HF | IEC 1000-4-6 Grd.3 |
| Interference resistance | IEC 1000-4-3 10V/m |
| Interference resistance | ENV 50204 |
| Protection type due to casing | EN 60529 |
| Flammability | DIN 5510 |

All information provided in this product sheet refers to the current conditions and may be subject to change.