# NETWORK AUDIO AMPLIFIERS
## HUSAR SIP WZM

**PRODUCT GROUP**
HUSAR PA

**PRODUCTS IN SERIES**
HUSAR WZM SIP2300LAN,
HUSAR WZM SIP4150LAN

Scan for more detailed information
about the met standards
and testing of this product

- ☑ 100V technology - class D
- ☑ Internal faults monitoring system
- ☑ Automatic switching of damaged line
- ☑ Advanced DSP processor
- ☑ Preset creation; adjustable bass and treble
- ☑ Delay definition; audio channel matrixing
- ☑ Up to 16 ANS microphones per speaker line for SPL optimization

- ☑ 2 independent audio channels 300W each or optionally 4x150W
- ☑ High-efficiency redundant power supply
- ☑ Microphone input
- ☑ Networking and communication via SIP protocol
- ☑ Full compliance with present Polish Railways standard (PKP PLK S.A. approval)

Network series audio amplifiers **HUSAR SIP WZM** are modern D-class powered amplifiers with a feature-rich DSP processor, enabling efficient and high sound level parameters, even in the most difficult acoustic environment. HUSAR SIP WZM fully communicates with the HUSAR AUDIO SIP controller and allows amplifiers to be used in multiple even far away locations. The amplifiers are dedicated to work with passenger information systems at railroad platforms and station buildings, but due to their advanced features, they can also be used in other applications, such as airports. The amplifiers are part of the HUSAR PA product group and operate perfectly with the HUSAR AUDIO controller; HUSAR CT ANS background sensors and loudspeakers offered by SAT-SYSTEM.

CCJ
ISO 9001:2015

IRIS™ Certification
IST/TS 22163:2017

CCJ
AQAP 2110:2016

Świadectwo
Bezpieczeństwa
Przemysłowego

Ministerstwo
Spraw Wewnętrznych
i Administracji
Koncesja
MSWiA

MADE IN
EU

# TECHNICAL DATA OF NETWORK AUDIO AMPLIFIERS
## AUDIO SERII HUSAR SIP WZM

| | |
|---|---|
| Technical parameters | |
| Powered class | D |
| Output power | Available in options: 2x300W; 4x150W |
| Input power technology | 100V |
| Loudspeaker outputs | 2+2; Two separate speaker line circuits operating independently. Fitted with screw terminals. |
| Frequency range | 20Hz - 20kHz |
| Efficiency | 94% power supply, active PFC, 90% amplifier, signal to noise ratio >80dBA, crosstalk , <70dBA at 1kHz load |
| THD distortions | 0,0001% |
| Power adjustment | Automatic (using background microphones and DAC1502 controller), stepless 0%-100% in each channel (digitally from the controller - analogue on the back of the amplifier) |
| Power supply | Redundantne n+n 100 - 230VAC (±10%) 50-60Hz ±1% |
| Power consumption (av./max.) | 5W, 150W/600W |
| Protections | Loudspeaker line short circuits (to earth and signal), overload, thermal, |
| Reliability | Power amplifier and LV power supply redundancy, watchdog, temperature and humidity measurement, auto reset of power amplifier |
| Inputs | 4x volume, 2x audio, presety, USB |
| Outputs | 4x line inputs for background microphone, 2x line inputs for audio, USB Audio, RJ45 |
| Features | Redundancy of power supply and audio path (n+n), Watchdog, support for up to 16 background microphones per loudspeaker line, presets (Master, Slave, Audio Input Priority), Audio Power Down (time between feeding a signal and full activation >500ms, LAN/WAN |
| DSP procesor | Delay, low- and high-frequency filtering, crackle filtering, limiter, input-output matrixing, presets (customisable per object with triggering by HUSAR AUDIO controller) |
| Operating temperaturę range | -5°C to +55°C and 20% to 90% humidity without condensation |
| Dimensions (W x H x D) | Rack 19" 2U - 482mm x 87,5mm x 260mm |
| Weight | 7kg (optimised centre of gravity) |
| IP rates IK rates | IP-22 (PN-EN 60529:2003) IK-09 (PN-EN 5012:2001) |