Schréder
Experts in lightability™

SHUFFLE

SHUFFLE SPK GEN2

SHUFFLE is a connected, modular approach to city hardware - with its plug-and-play rotatable modules that contain pre-certified hardware, it can be configured to suit your specific needs.

KEY ADVANTAGES

> **Seamless integration in the SHUFFLE column**

> **Vandal-proof design to protect the hardware**

> **Easy installation with patented mounting system**

> **Analogue and digital loudspeakers available**

The SHUFFLE SPK GEN2 module offers the possibility to seamlessly add sound into the column.

The versatility of this module suits an array of use cases like ambient music, public service announcements, warnings or even emergency management. Both analogue and digital loudspeakers are available.
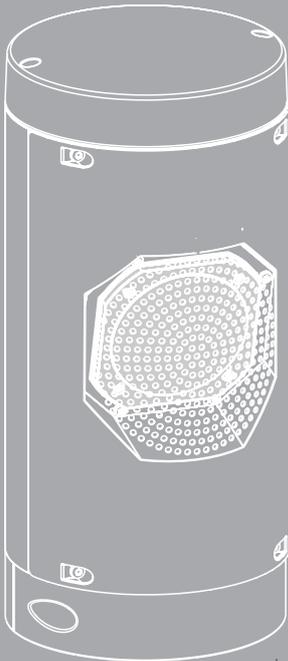
Modules are made of high-grade, high-pressure die-cast aluminium and feature a new aluminium mask design. This mask complements the cylindrical shape of the module, providing a clean, streamlined appearance. Stainless steel fasteners ensure full protection against the elements. The entire module is then finished with a polyester powder coating, available in a variety of colours, offering endless possibilities.

SHUFFLE SPK GEN2 | CHARACTERISTICS

KEY FEATURES

> **Professional sound system**

> **Frequency range: 90 - 19,000Hz**

> **Full range speaker with dual cone**

> **Perfect sound - up to 25W power output**

> **Weatherproof / adapted to indoor and outdoor applications**
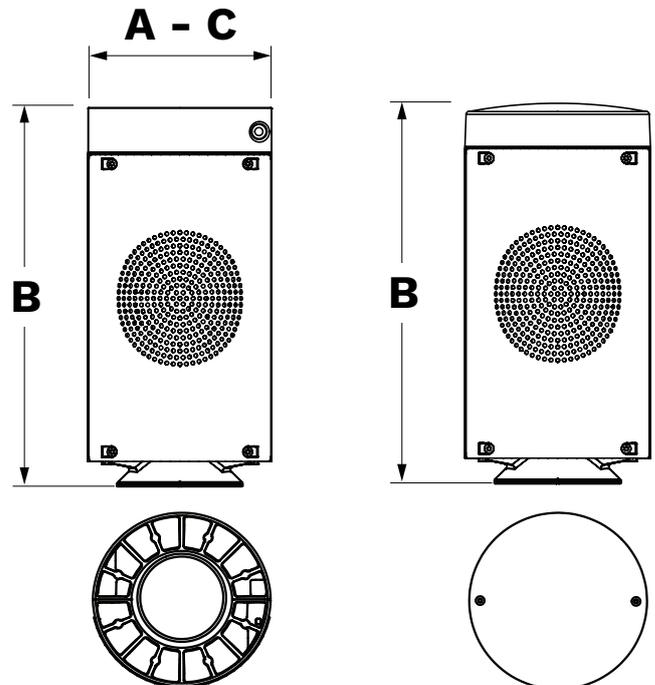
> **Digital connected network speaker**

COMPARISON TABLE

	Analogue loudspeaker	Digital loudspeaker	Digital loudspeaker
	SH18S2-NP	SH18S2-S8	SH18S2-NQ
Frequency range	90 - 19000Hz	90 – 19000Hz	90 – 19000Hz
Sound pressure level (1W/1m)	90dB	90dB	90dB
Max. power rating	25W	25W	15W
Ethernet connection	No	Yes	Yes
Internal amplifier	No	Yes (Digital Acoustics)	Yes (AXIS)

DIMENSIONS AND MOUNTING

AxBxC (mm | inch)	194x403x194	7.6x15.9x7.6
Weight (kg | lbs)	6.1	13.4
Aerodynamic resistance (CxS)	0.08
Mounting possiblilities	Clamps

A – C

B

B

SHUFFLE SPK GEN2 - SH18S2-NP | CHARACTERISTICS

GENERAL

Recommended installation height	2.3m to 6.8m | 7.5' to 22.3'
CE mark	Yes
UKCA certified	Yes
UL Mark	No
ROHS compliant	Yes

HOUSING AND FINISH

Housing	Aluminum
Protector	Polycarbonate
Housing finish	Polyester powder coating
Standard colour	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 10
Ta	-0°C to +40°C -32°F to +104°F

ELECTRICAL

Electrical class	Class I EU, Class II EU

SHUFFLE

SHUFFLE Pole model	1 door | 2 doors same side | 2 doors opposite | 3 doors
SHUFFLE Components	Mains box
	Support plate
	Loudspeaker cable
Position on pole	Any position

LOUDSPEAKER

Frequency range	90-19000Hz
Transmission method	100V
Sound pressure level (1 W/1 m)	90dB
Power rating (RMS)	25 / 20 / 12 / 6W

SHUFFLE SPK GEN2 - SH18S2-S8 | CHARACTERISTICS
Digital Acoustics

GENERAL

Recommended installation height	2.3m to 6.8m | 7.5' to 22.3'
CE mark	Yes
UKCA certified	Yes
UL Mark	Yes
ROHS compliant	Yes

HOUSING AND FINISH

Housing	Aluminum
Protector	Polycarbonate
Housing finish	Polyester powder coating
Standard colour	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 10
Ta	-30°C to +70°C -22°F to +158°F

ELECTRICAL

Electrical class	Class I EU, Class II EU, Class 1 UL

SHUFFLE

SHUFFLE pole model	2 doors same side | 3 doors
SHUFFLE components	Mains box | Beyond light supply box
	Support plate network
	Network cable
Position on pole	Any position

CONNECTED SPEAKER AND AMPLIFIER

Rated power	25W
Frequency range	90 - 19000Hz
Nominal impedance Z	8Ohm
Sound pressure level (1 W/1 m)	90dB
Opening angle (-6 dB)	64°/4000Hz
Resonance frequency fs	190Hz
Magnetic induction	1,0T
Magnetic flux	190Wb
Network protocols	TCP, UDP, RTP, SIP, ICMP, IGMP Multicast
Network interface	10/100 Base-T Ethernet, Auto-MDIX
Network ports (RJ 45)	2
Core technology	ICC-512 50 MIPS System on a Chip
IP address assignment	Static, DHCP
Transport bandwidth	Nominal 64kbps (Voice)
Audio protocol	8-bit PCM/G.711 uLaw
Audio latency	<200ms Auto-Adaptive
Amplifier type	Class D, Balanced Transformerless
Connection modes	TalkMaster™ Focus Endpoint SIP 2.0 Endpoint Hybrid TalkMaster™ Focus/SIP 2.0 Endpoint Direct Mode Singlewire Informacast

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SHUFFLE SPK GEN2 - SH18S2-NQ | CHARACTERISTICS
AXIS

GENERAL

Recommended installation height	2.3m to 6.8m | 7.5' to 22.3'
CE mark	Yes
UKCA certified	Yes
UL Mark	pending
ROHS compliant	Yes

HOUSING AND FINISH

Housing	Aluminum
Protector	Polycarbonate
Housing finish	Polyester powder coating
Standard colour	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 10
Ta	-30°C to +70°C -22°F to +158°F

ELECTRICAL

Electrical class	Class I EU, Class II EU, Class 1 UL (pending)

SHUFFLE

SHUFFLE pole model	2 doors same side | 3 doors
SHUFFLE components	Mains box | Beyond light supply box
	Support plate network
	Network cable
Position on pole	Any position

CONNECTED SPEAKER AND AMPLIFIER

Rated power	15W
Frequency range	90 - 19000Hz
Nominal impedance Z	8Ohm
Sound pressure level (1 W/1 m)	90dB
Opening angle (-6 dB)	64°/4000Hz
Resonance frequency fs	190Hz
Magnetic induction	1,0T
Magnetic flux	190Wb
Network protocols	Pv4/v6b, HTTP, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP, SIP (Cisco, Avaya, Asterisk)
Network interface	10BASE-T/100BASE-TX PoE
Network ports (RJ 45)	1
Core technology	i.Mx 6SoloX
IP address assignment	DHCP
Transport bandwidth	MP3 in mono/stereo from 64kbps to 320kbps
Audio protocol	AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Axis u-law 16 kHz, WAV
Connection modes	AXIS Audio Manager Edge (Built-In and free), AXIS Audio Manager Pro (optional, Paid) and AXIS Audio Manager Center (optional, Paid)