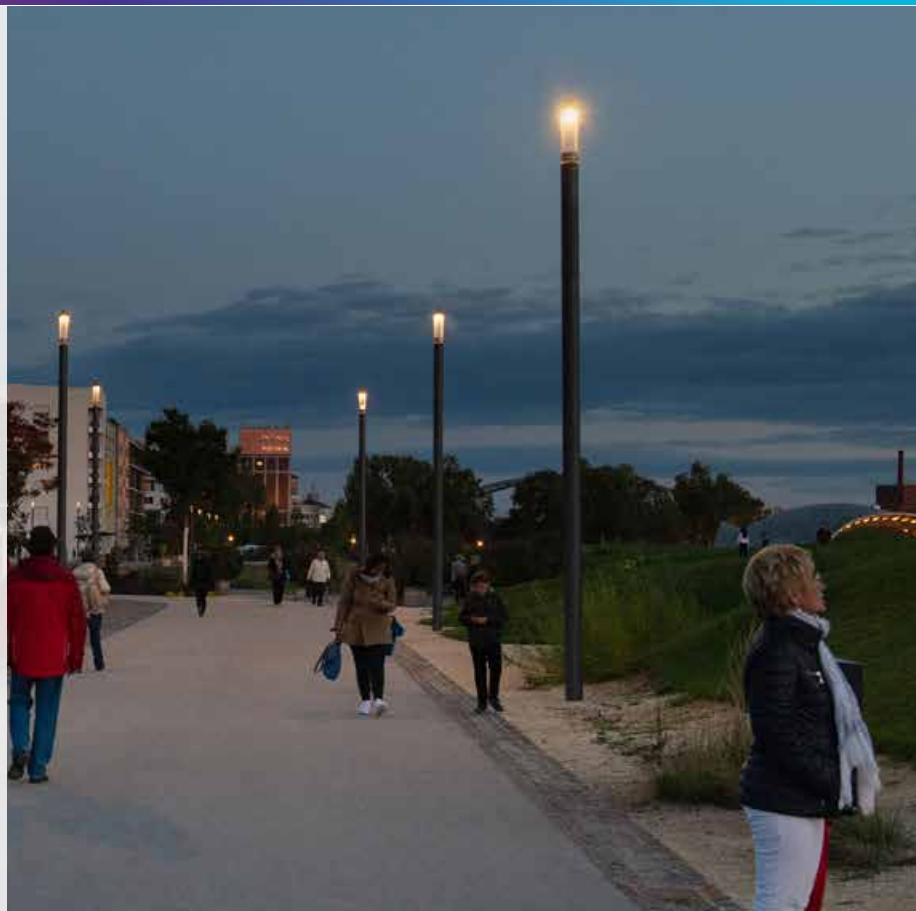




LOUDSPEAKER SOLUTION



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**
- > **Analog and digital loudspeakers available**

The SHUFFLE 180 LOUDSPEAKER 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 analog and digital loudspeakers are available.

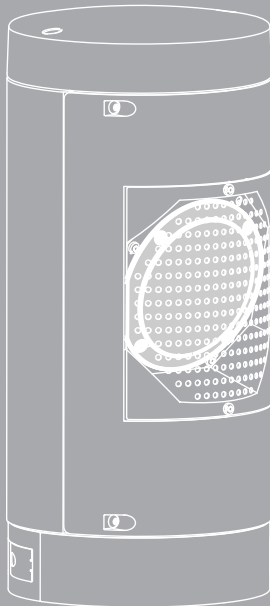
Modules are made of high-grade, high-pressure, die-cast aluminium and a black protector in PC is used to conceal its contents carefully. Extruded aluminium is also used to achieve the cylindrical shape, with fasteners in stainless steel allowing a full protection against the elements. The entire module is then finished with a polyester powder coating that comes in a variety of colours offering endless possibilities.



LOUDSPEAKER | 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

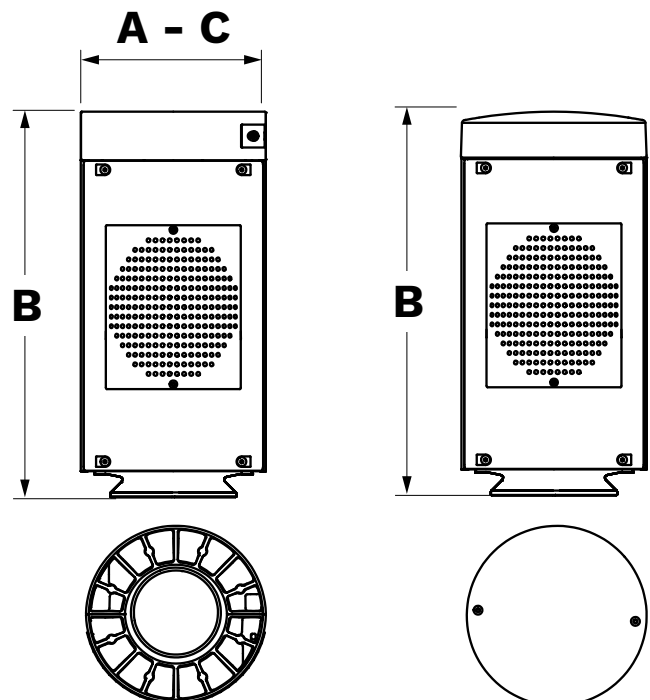


COMPARISON TABLE

	Analog speaker	Digital speaker
	SH18S2-CP	SH18S2-S8
Frequency range	100 - 18000Hz	90 - 19000 Hz
Sound pressure level (1W/1m)	89dB	90dB
Max. power rating	20W	25W
Ethernet connection	No	Yes
Internal amplifier	No	Yes

DIMENSIONS AND MOUNTING

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



LOUDSPEAKER SH18S2-CP | CHARACTERISTICS

GENERAL

Recommended installation height	2.3m to 6.8m 7.5' to 22.3'
CE 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	-0°C to +40°C -32°F to +104°F

ELECTRICAL

Electrical class	Class I EU, Class II EU
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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	100-18000Hz
Transmission method	100V
Sound pressure level (1 W/1 m)	89dB
Power rating (RMS)	20 / 15 / 10 / 5 / 2.5W

DIGITAL SPEAKER SH18S2-S8 | CHARACTERISTICS

GENERAL

Recommended installation height	2.3m to 6.8m 7.5' to 22.3'
CE 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
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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	80hm
Sound pressure level (1 W/1 m)	90dB
Opening angle (-6 dB)	64°/4000Hz
Resonance frequency fs	190Hz
Magnetic induction	1,0T
Magnetic flux	190μWb
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