

LED Information Display

GSI

The GSI series of information displays are digital LED information displays specifically designed for public transport stops and terminals. The full matrix LED displays provide a flexible solution for passenger information systems providing up-to-date information to passengers. Designed without front cover glass for maximum colour reproduction. Various mounting options.



Features

LED Technology

LED full-matrix technology allows freely configurable display layout. Full graphical display with fine pixel pitch 1.95 or 2.6 mm perfectly displays text, graphic symbols, images, videos, websites and live broadcasts.

- High brightness display guarantees excellent readability even in direct sunlight.
- Fully graphic display shows public transport information, train and bus departures, general passenger information as well as advertising messages and other multimedia.

Information System

Possibility of making the display as an autonomous display element or as part of larger information system.

- Management by an external master computer makes tracking and controlling easier.
- Power and runtime data are automatically monitored.

Mechanical Design

- Stable construction made of laser-cut and bent aluminium sheets and profiles, frame color on customer's request.
- Without front glass for excellent contrast and color reproduction, complete reduction of reflections, better cooling and lower weight.
- Flexible dimensions.
- Ceiling, wall bracket or wall surface mounting. Customized solution on request.
- Single sided or double sided design.
- Possibility to implement extra digital clock, analogue clock, platform number or fixed description.
- Passive cooling without fans.
- Easy access to all internal modules after tilting front panel makes easier to check up and replace internal parts.

Operation

- The display is designed for reliable usage 24/7 in indoor conditions.
- Choose from two types of modes according displays usage.

Text-to-Speech Module

Specially developed module for visually handicapped person.

- The module provides the necessary information via synthetic voice output from 8W speakers.

Various Areas of Use



Public Transport and Bus Stops



Train Stops and Stations



Railway Stations



LED Technology



Full Color RGB Display



Usage 24/7



Brightness up to 1000 cd/m²



Management and Monitoring System



Integrated Temperature Control



Option WiFi, LTE or Fiber Optics



Text-To-Speech Module



Suitable for Indoor Use

Technical Parameters

GSI.		19	26s
Module Specifications	pixel pitch [mm]	1.95 ¹	2.6
	resolution [px]	128 x 128	96 x 96
	size [mm]		250 x 250
	brightness	800 cd/m ²	1000 cd/m ²
	viewing angle		±70° x ±60°
	frame frequency		50 Hz
	refresh rate		3 840 Hz
	color depth		24 bit
	contrast	3 000:1	5 000:1
	life span		≥ 100 000 hours (70% brightness)
	Mechanical Construction	frame	
service access			tilting front panel secured by industrial locks
cooling			passive, without fans
dimensions [mm]			by screen size, see Indicative dimensions table
protection degree			IP 40 (IP 41 on request)
max. size of active display area [m] W x H			2.75 x 1 ²
Temperature Management	temperature		-10 to +40 °C
	humidity		10 to 90 % (without condensing)
Power	power voltage		100–240 VAC, 50–60 Hz
	power consumption	15 W/ module MAX, 5 W/ module AVG	13 W/ module MAX, 6 W/ module AVG
Mounting	standard		ceiling suspension, wall bracket, wall surface mounting
	on request		customized solution

Notes

- Available only for projects with total area over 5 m².
- Possibility to make information display without cover glass made of cabinets, where there is no size limit. Dimensions must be in multiples of 0.5 x 0.5 m.

Basic Font Set

GSI.19

Name	Standard 5/7	Bold 6/7	Narrow 4/7	Small 4/6	Standard 6/10	Narrow 6/12	Arial 9/11	Arial 11/13	Arial 17/19	Arial 31/34
Max. character size (including gaps) [px] A x B	6 x 10	7 x 10	5 x 10	5 x 7	7 x 14	7 x 18	10 x 18	12 x 21	18 x 30	31 x 53
Height of capital letter [mm] C	13	13	13	11.5	19	23	21	25	36	64
Readability DIN1450 [m]	5.4	5.4	5.4	4.6	7.6	9.2	8	10	14.5	26
Readability TSI-PRM [m]	3.4	3.4	3.4	3	5	5.7	5	6	9	16
Number of characters per line (1 module)	21.3	18.3	25.6	25.6	18.3	18.3	12.8	10.7	7.1	4.0
Max. number of rows per module	12.8	12.8	12.8	18.3	9.1	7.1	7.1	6.1	4.3	2.4

Possibility to add font on customer's request

GSI.26s

Name	Standard 5/7	Bold 6/7	Narrow 4/7	Small 4/6	Standard 6/10	Narrow 6/12	Arial 9/11	Arial 11/13	Arial 17/19	Arial 31/34
Max. character size (including gaps) [px] A x B	6 x 10	7 x 10	5 x 10	5 x 7	7 x 14	7 x 18	10 x 18	12 x 21	18 x 30	31 x 53
Height of capital letter [mm] C	17	17	17	14.5	24.5	29.5	28	33	36	64
Readability DIN1450 [m]	7	7	7	6	10	12	11	13	14.5	26
Readability TSI-PRM [m]	4	4	4	4	6	7	7	8	9	16
Number of characters per line (1 module)	16.0	13.7	19.2	19.2	13.7	13.7	9.6	8.0	7.1	4.0
Max. number of rows per module	9.6	9.6	9.6	13.7	6.9	5.3	5.3	4.6	4.3	2.4

Possibility to add font on customer's request



Indicative Dimensions Table

GSI.19

Number of Modules Horizontally / Pixels

2 256	3 384	4 512	5 640	6 768	7 896	8 1024	9 1152	10 1280	11 1408
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Number of Characters per Line (Font Standard 5/7)

	42.6	63.9	85.2	106.5	127.8	149.1	170.4	191.7	213	234.3
12.8	500	750	1000	1250	1500	1750	2000	2250	2500	2750
	250	250	250	250	250	250	250	250	250	250
25.6	500	750	1000	1250	1500	1750	2000	2250	2500	2750
	500	500	500	500	500	500	500	500	500	500
38.4	500	750	1000	1250	1500	1750	2000	2250	2500	2750
	750	750	750	750	750	750	750	750	750	750
51.2	500	750	1000	1250	1500	1750	2000	2250	2500	2750
	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

No. of Modules Vertically / Pixels

1	128
2	256
3	384
4	512

No. of Lines (Font Standard 5/7)

GSI.26s

Number of Modules Horizontally / Pixels

2 192	3 288	4 384	5 480	6 576	7 672	8 768	9 864	10 960	11 1056
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Number of Characters per Line (Font Standard 5/7)

	32	48	64	80	96	112	128	144	160	176
9.6	500	750	1000	1250	1500	1750	2000	2250	2500	2750
	250	250	250	250	250	250	250	250	250	250
19.2	500	750	1000	1250	1500	1750	2000	2250	2500	2750
	500	500	500	500	500	500	500	500	500	500
28.8	500	750	1000	1250	1500	1750	2000	2250	2500	2750
	750	750	750	750	750	750	750	750	750	750
38.4	500	750	1000	1250	1500	1750	2000	2250	2500	2750
	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

No. of Modules Vertically / Pixels

1	96
2	192
3	288
4	384

No. of Lines (Font Standard 5/7)

Order Reference

1 Model

GSI.19	19
GSI.26s	26s

2 Number of Pixels Horizontally

GSI.19 (128 px per module)	256-1408
GSI.26s (96 px per module)	192-1056

3 Number of Pixels Vertically

GSI.19 (128 px per module)	128-512
GSI.26s (96 px per module)	96-384

4 Display Color

Full color RGB display	RGB
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5 Design

Single sided	N
Double sided	D

6 Mounting

Ceiling suspension	S
Ceiling suspension with additional fastening on side of the display	SB
Ceiling suspension with additional fastening on left side of the display	SL
Ceiling suspension with additional fastening on right side of the display	SR
Wall surface mounting	N
Wall bracket	B
Wall bracket with additional fastening on left side of the display	BL
Wall bracket with additional fastening on right side of the display	BR
Customized solution on request	Z

7 Cover Glass

Without front glass	O
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8 Options
(if more than one options is selected, include the extension code in order indicated separated by dot)

Fixed header (number indicates specific design)	Px
Digital clock	CLK
Analogue clock	ACLK
Analogue clock with seconds hand	ACLKS
Platform number	Nb
Text-to-Speech module with 8W speaker and receiver for visually handicapped	TTS
Interface Ethernet	LAN
Interface RS 485	RS485
Interface WiFi	WiFi
Interface LTE	LTE
Interface fiber optics	FO

9 Frame Color

Matte black	RAL9005
Light grey	RAL7040
Blue	RAL5003
Frame color on request	RALxxxx

Order example:

GSI.26s.1056.192.RGB.N.N.O.CLK.TTS.RS485.RAL5003



Accessories

Holders:

1	Holder	
	Wall holder	WH.F

2	Model	
	GSI.19	GSI.19
	GSI.26s	GSI.26s

3	Number of Pixels Horizontally	
	GSI.19 (128 px per module)	256-1408
	GSI.26s (96 px per module)	192-1056

4	Number of Pixels Vertically	
	GSI.19 (128 px per module)	128-512
	GSI.26s (96 px per module)	96-384

5	Options	
	Fixed header (number indicates specific design)	Px
	Digital clock	CLK
	Analogue clock	ACLK
	Analogue clock with seconds hand	ACLKS
	Platform number	Nb

6	Frame Color	
	Matte black	RAL9005
	Light grey	RAL7040
	Blue	RAL5003
	Frame color on request	RALxxxx

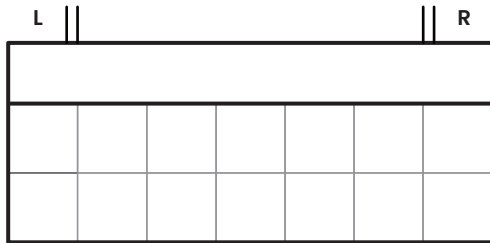
Order example
for display GSI.26s.1056.192.RGB.N.N.O.CLK.TTS.RS485.RAL5003:

WH.F.GSI.26s.1056.192.CLK.RAL5003

1	2	3	4	5	6
Holder	Model	Number of Pixels Horizontally	Number of Pixels Vertically	Options	Frame Color

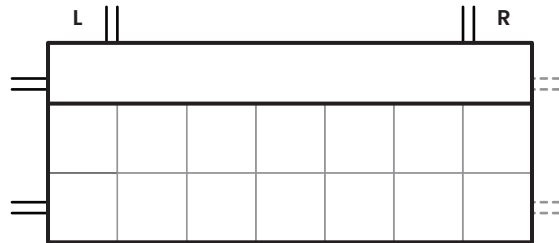
Mounting

Ceiling Suspension



Order reference: **S**

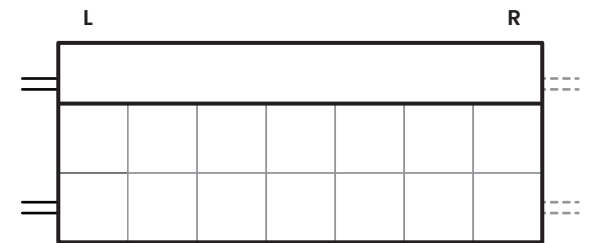
Ceiling Suspension
with Additional Fastening on Side of the Panel



Order reference for Single Sided: **SL / SR**

Order reference for Double Sided: **SB**

Wall Bracket
(with Additional Fastening on Side of the Panel)



Order reference for Single Sided: **BL / BR**

Order reference for Double Sided: **B**

Get in Touch



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LE-801328.04-GSI Indoor LED Full Matrix Information Display-240717

Your Partner Across Time...

We are a traditional Czech company operating in the field of timekeeping and display technology. Our success is evidenced by our continuous growth, both in terms of company size and expansion of our product range or export abroad.

Since 1995 we have been a member of the international holding MOSER-BAER AG and our products under the prestigious MOBATIME brand are exported all over the world.

