siebert®

Series SGX500
Graphic Boards

LED Matrix Displays

With series SGX500 a universal type range of innovative graphic boards is available to the user. Visualization of process data and graphic information are typical applications.

Perfect design

Designed for harsh industrial applications, the boards have proved themselves in factory automation as well as in processing and process engineering.

Brilliant LED display

A particularly high luminosity characterizes the graphic boards of series SGX500. Brilliant LEDs in connection with reflection-free front panes ensure an excellent display, even under unfavourable lighting conditions.

Open system

Embedded in the graphic board there is an IBM-compatible industrial PC on which any common operating system can be installed. Thanks to this concept of being independent of manufacturers the user can use any visualization program he wants to.

The PC embedded in the graphic board can be operated from any other PC. A corresponding program is included in the scope of delivery.

Freely configurable

The display images can be configured with all programs which allow HTML export. Display areas, variables, graphics and animations can be configured freely.
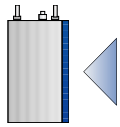
Display on one or two sides

The graphic boards are also available with display on both sides. These versions present the same information on the front- and rear side.
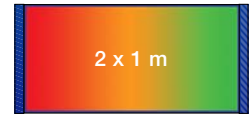
Modular design

Easy to commission and service, the PC embedded in the graphic board is directly accessible through lockable housing openings. Conceived consistently as a modular form, the LED matrix fields are just as easily accessible and can be exchanged easily at any time.
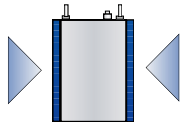
readable on one side

Display	SGX500-128/64-1-B	SGX500-192/64-1-B	SGX500-192/128-1-B	SGX500-256/128-1-B
Dimensions W x H x D	1460 x 650 x 250 mm	1950 x 650 x 250 mm	1950 x 1150 x 250 mm	2430 x 1150 x 250 mm
Weight	approx. 45 kg	approx. 60 kg	approx. 180 kg	approx. 210 kg
Power consumption, typical[1]	approx. 200 (400) VA	approx. 300 (500) VA	approx. 600 (1000) VA	approx. 800 (1300) VA
Resolution	128 x 64 pixels	192 x 64 pixels	192 x 128 pixels	256 x 128 pixels

Further display sizes on request.

readable on both sides

Display	SGX500-128/64-2-B	SGX500-192/64-2-B	SGX500-192/128-2-B	SGX500-256/128-2-B
Dimensions W x H x D	1460 x 650 x 300 mm	1950 x 650 x 300 mm	1950 x 1150 x 300 mm	2430 x 1150 x 300 mm
Weight	approx. 90 kg	approx. 125 kg	approx. 215 kg	approx. 290 kg
Power consumption, typical[1]	approx. 400 (800) VA	approx. 600 (1000) VA	approx. 1200 (2000) VA	approx. 1600 (2600) VA
Resolution	128 x 64 pixels	192 x 64 pixels	192 x 128 pixels	256 x 128 pixels

Further display sizes on request.

General technical data

Embedded PC	Industrial PC (IBM-compatible)B
Housing	Sheet steel, varnished (ultramarine blue, RAL 5002)
Protection type	IP54
Power supply	230 V AC, 50 Hz (SGX500-256/128-2: 400 V AC, 50 Hz)
Environmental conditions	Operating temperature 5…40 °C, rel. humidity 10…90% (non-condensing)
Ventilation	temperature-controlled with protective interruption at overheating
LED	multicolor (red/green/orange), 256 shades of color
Luminous spot/pixel	Spacing 7,62 mm, size (diameter) 5 mm, luminosity per luminous spot/pixel 15 mcd
Image refresh rate[2]	60 (240) Hz
Embedded PC	■
Lamps for operation status	■
Reflection-free front panes	■

Embedded PC

CPU (Mobile Pentium)	min. Pentium III 700 MHz, 100% PC-compatible
RAM	1 DIMM Socket, min. 256 MB SDRAM
Hard disk drive HDD	min. 20 GB, 2,5''
AGP Video Controller (VGA)	■
Ethernet 10/100 Base-T	■
4 serial, 1 parallel, 1 USB	■
Sound output	■ (Soundblaster-compatible)
3,5" floppy disk drive, 1,44 MB	■
CD drive, external, min. 16-fold	optional

[1] Values in brackets are maximum values.
[2] Values in brackets apply to LED refresh rate.

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Automotive industry

Chemicals &
Pharmaceuticals

Transport & Logistics

Mechanical and
industrial plant engineering

Food processing
and luxury food industry

Steel production
Steel formation

Aerospace industry

Paper and
printing industry

Textiles industry

Weighing and dosimetry

Austria

Siebert Österreich GmbH
Karl-Eybl-Str. 4 - Postfach 19
A-2435 Ebergassing
Phone 0 22 34 / 795 25
Fax 0 22 34 / 795 26
www.siebert-oesterreich.at
info@siebert-oesterreich.at

France

Siebert France Sarl
33, rue Poincaré - BP 90 334
F-57203 Sarreguemines Cédex
Phone 03 87 98 63 68, Fax 03 87 98 63 94
www.siebert.fr, info@siebert.fr

Germany

Siebert Industrieelektronik GmbH
Siebertstraße, D-66571 Eppelborn
Postfach 11 80, D-66565 Eppelborn
Phone 0 68 06 / 980-0, Fax 0 68 06 / 980-999
www.siebert.de, info@siebert.de

Switzerland

Siebert AG
Bützbergstrasse 2 - Postfach 91
CH-4912 Aarwangen
Phone 062 922 18 70, Fax 062 922 33 37
www.siebert.ch, info@siebert.ch

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