

S-line

The series of the S-Line Panel PCs introduces itself.

All models and their technical data overview.
Comprehensive list of accessories.

2010



reddot design award
winner 2010



Mulder-Hardenberg B.V., The Netherlands
Tel.: +31 (0)23 - 531 91 84
info@mh-biz

Mulder-Hardenberg N.V., Belgium
Tel.: +32 (0)3 - 660 13 20
info@mh-biz

Mulder-Hardenberg GmbH, Germany
Tel.: +49 (0)6192 - 97 91 85
info@mh-biz

www.mulder-hardenberg.com



BRIEF DESCRIPTION

15" and 19" panel-PC - the basis of infinite capabilities • varnished aluminium enclosure • optional: Preparation for outdoor use to -20°C (-4F) • Cooling fins on the panel's backside • slim design • protection class IP54, optional up to IP65 (NEMA 4) • resistive touch screen or SAW type • authentication via RFID tag reader or fingerprint • optional VESA 75 retainer or 100 mm, Quicklock coupler/socket • longterm-available PC • components and service friendly construction • detachable shutter for extensions or cable guidance in the bottom

OPERATING FIELD: Plant-floor, machine-building, automation, authentication

technical data

data sheet

Type

Display

Screen resolution
Brightness / contrast
Sunlight readable
Touchscreen

Mechanics

physical dimensions
Weight
VESA retainer

	15"	19"
optional		
optional		
optional		
BxHxT	370 x 361,5 x 45 mm	458 x 440 x 45 mm
	6 kg	8 kg
	100 x 100 mm / 75 x 75 mm	

Fan-less IPC Integration for 15" and 19" IPCs

		Pentium M	Core 2 Duo
CPU long-term available	optional optional optional	M 745 1,8 GHz, 2 MB L2, FSB400 Celeron M 1 GHz FSB400	T7500 2 x 2,2 Ghz 4 MB L2 FSB 800 T9300 2 x 2,5 Ghz 6 MB L2 FSB 800 T7100 2 x 1,8 Ghz 2 MB L2 FSB 800 M570 2,26 GHz 1 MB L2 FSB533
Memory		1 GB DDR	1 GB DDR2, max 2 GB
Chipset Graphics Watchdog		Intel 855GME (Extreme Graphics 2) dual Grafik mit 64 MB 256 layers	Intel 965GME (X3100) dual Grafik mit 384 MB 256 layers
Drives		shock resistant mounting brackets	
HDD		2,5" 80- 250 GB IDE	2,5" 80 - 320 GB Sata / IDE / CF-Card
Solid State Disk	optional	2 - 64 GB SSD SLC 2,5" / Disk on Module /	
Optical Drives	optional	CD-RW oder DVD-RW DL or Blue Ray with ejection aside	
Interfaces backside	optional	1 x 10/100 Mbit LAN RJ45 IP67 1 x USB 2.0 IP67 1 x 10/100 Mbit LAN USB Adapter	1 x 1 Gbit LAN RJ45 IP67 1 x USB 2.0 IP67 1 x 1 Gbit LAN RJ45 IP67
Internal Interfaces , optionally taken outside		3 x USB 2.0, 1 x LPT, PS/2 (Y) 2 x RS232 Speaker, Mic, Line-In, AC97 PC104+	3 x USB 2.0, 1 x LPT, PS/2 (Y) 1 x RS232, 1 x RS232/485/422 Speaker, Mic, Line-In, HD-5.1 CF-II Digital I/O 4/4
Extensions Digital I/O			
Operating systems	optional	Windows 2000, XP, XPe, Vista, Windows 7, Linux, more upon inquiry	
Wi-Fi	optional	802.11 b/g/n	802.11 b/g/n
Operating voltages		24V DC with wide range input 9-36 V DC	
Power Consumption		~ 50 W	~ 65 W
Power Input	optional optional	external power supply 100-245VAC 60W or 96W 0-W stand by - circuit	
Ambient temperature		0° ~ 50°C	0° ~ 50°C
Operating temperature	optional	-20°C heating set	-20°C heating set
Storage temperature		-20° ~ 80°C	-20° ~ 80°C
Relative humidity		5 ~ 90% non-condensing	5 ~ 90% non-condensing



BIEF DESCRIPTION

15" and 19" panel-PC - the energy saver • **power consumption starting at just 14W / 20W** • varnished aluminium enclosure • optional: Preparation for outdoor use to -20°C (-4F) • cooling fins on the panel's backside • slim design, protection class IP54, optional up to IP65 (NEMA 4) • resistive touch screen or SAW type • authentication via RFID tag reader or fingerprint • optional VESA 75 retainer or 100 mm • Quicklock coupler/socket • Longterm-available PC components and service friendly construction • detachable shutter for extensions or cable guidance in the bottom.

OPERATING FIELD: Plant-floor, machine-building, automation, authentication

technical data



data sheet

Type

Display

Screen resolution
Brightness / contrast
Sunlight readable

Touchscreen

Mechanics

physical dimensions
Weight
VESA retainer

15"

15" Color TFT mit 16,7 Mio. Farben
1024 x 768 Pixel
300 cd/m², 800:1
360/1000 cd/m², 800:1
optional
optional
optional
optional
optional
optional
optional
optional
optional
optional

optional
optional
optional
optional
optional
optional
optional
optional
optional
optional
optional
optional

BxHxT

370 x 361,5 x 45 mm
6 kg
100 x 100 mm / 75 x 75 mm

19"

19" Color TFT mit 16,7 Mio. Farben
1280 x 1024 Pixel
300 cd/m², 1300:1
360/1000 cd/m², 1300:1
1000 cd/m², 1000:1
5-wire resistive Touch
resistive Glas-Glas-touch
SAW-Touch

458 x 440 x 45 mm
8 kg

Fan-less IPC Integration for 15" and 19" IPCs

CPU long-term available

optional

Atom N270

N270 1,6 GHz 512KB L2, FSB533

ATOM ultra low voltage

Z530 1,66 GHz 512KB L2, FSB533
Z510 1,1 GHz 512KB L2, FSB533

Memory

Chipset
Graphics
Watchdog

1 GB DDR2

Intel 945GSE
dual Grafik mit 224 MB
256 layers

1 GB DDR2, max 2 GB

Intel SCH US 15W XL
dual Grafik
256 layers

Drives

HDD
Solid State Disk
Optical Drives

optional
optional

shock resistant mounting brackets

2,5" 80- 320 GB IDE / Sata / CF-Card
2 - 64 GB SSD SLC 2,5" / Disk on Module /
CD-RW oder DVD-RW DL or Blue Ray with ejection aside

Interfaces backside

optional

1 x 1 Gbit LAN RJ45 IP67
1 x USB 2.0 IP67
1 x 1 Gbit LAN RJ45 IP67

1 x 1 Gbit LAN RJ45 IP67
1 x USB 2.0 IP67
1 x 1 Gbit LAN RJ45 IP67

Internal **Interfaces**,
optionally taken outside

3 x USB 2.0, 1 x LPT, PS/2 (Y)
1 x RS232, 1 x RS232/485/422,
Speaker, Mic, Line-In, HD-5.1
CF-II, 2 x RS232
Digital I/O 4/4

3 x USB 2.0
1 x RS232, 1 x RS232/485/422,
Speaker, Mic, Line-In, HD-5.1
mini PCIe CF-II
Digital I/O 4/4

Operating systems

Wi-Fi

optional
optional

Windows 2000, XP, XPe, Vista, Windows 7, Linux, more upon inquiry

Operating voltages

Power Consumption
Power Input

optional
optional

~ 30 W

24V DC with wide range input 9-36 V DC

ab 14 W
external power supply 100-245VAC 60W or 96W
0-W stand by - circuit

Ambient temperature

Operating temperature

optional

0° ~ 50°C
-20°C heating set
-20° ~ 80°C

0° ~ 50°C

-20°C heating set
-20° ~ 80°C

Storage temperature

Relative humidity

5 ~ 90% non-condensing

5 ~ 90% non-condensing



Mulder-Hardenberg B.V., The Netherlands
Tel.: +31 (0)23 - 531 91 84
infonl@m-h.biz

Mulder-Hardenberg N.V., Belgium
Tel.: +32 (0)3 - 660 13 20
infoe@m-h.biz

Mulder-Hardenberg GmbH, Germany
Tel.: +49 (0)6192 - 97 91 85
infoe@m-h.biz

www.mulder-hardenberg.com



BIEF DESCRIPTION

15" and 19" panel-PC made of stainless steel for extreme environmental impacts • **industrial hygiene compliance (food processing, hospital etc.)** • **front is justified in line with steel front** • **available in IP 65 (NEMA 4), IP67 (NEMA 6) and even in German IP69k: cleanable w/ high-pressure water blaster** • optional: Preparation for outdoor use to -20°C (-4F) • slim design, protection class IP54, optional up to IP65 (NEMA 4) • resistive touch screen or SAW type • authentication via RFID tag reader or fingerprint reader • optional VESA 75 retainer or 100 mm, Quicklock coupler/socket • Longterm-available PC components and service friendly construction • detachable shutter for extensions or cable guidance in the bottom.

OPERATING FIELD: Plant-floor, machine-building, automation, authentication, food processing

technical data

data sheet

Type	15"	19"
Display Screen resolution Brightness / contrast Sunlight readable Touchscreen	optional optional optional	optional optional optional
Mechanics physical dimensions Weight VESA retainer	BxHxT 370 x 361,5 x 45 mm 12 kg 100 x 100 mm / 75 x 75 mm	458 x 440 x 45 mm 14 kg

15"

19"

15" Color TFT mit 16,7 Mio. Farben
1024 x 768 Pixel
300 cd/m², 800:1
360/1000 cd/m², 800:1

19" Color TFT mit 16,7 Mio. Farben
1280 x 1024 Pixel
300 cd/m², 1300:1
360/1000 cd/m², 1300:1

resistive Glas-Glas-touch
capacitive touch screen, behind front-flushing safety glas

Fan-less IPC Integration for 15" and 19" IPCs

CPU long-term available	Atom N270	Core 2 Duo
optional optional optional	N270 1,6 GHz 512KB L2, FSB533	T7500 2 x 2,2 Ghz 4 MB L2 FSB 800 T9300 2 x 2,5 Ghz 6 MB L2 FSB 800 T7100 2 x 1,8 Ghz 2 MB L2 FSB 800 M570 2,26 GHz 1 MB L2 FSB533
Memory Chipset Graphics Watchdog	1 GB DDR2 Intel 945GSE dual Grafik mit 224 MB 256 layers	1 GB DDR2, max 2 GB Intel 965GME (X3100) dual Grafik mit 384 MB 256 layers
Drives HDD Solid State Disk Optical Drives	optional optional	optional optional
Interfaces backside	optional	optional
Internal Interfaces , optionally taken outside	3 x USB 2.0, 1x LPT, PS/2 (Y) 1 x RS232, 1 x RS232/485/422, Speaker, Mic, Line-In, HD-5.1 CF-II, 2xRS232 Digital I/O 4/4	3 x USB 2.0, 1x LPT, PS/2 (Y) 1 x RS232, 1 x RS232/485/422, Speaker, Mic, Line-In, HD-5.1 CF-II Digital I/O 4/4
Operating systems Wi-Fi Operating voltages Power Consumption Power Input	optional optional optional optional	optional optional optional optional
Ambient temperature Operating temperature Storage temperature Relative humidity	optional 0° ~ 50°C -20°C heating set -20° ~ 80°C 5 ~ 90% non-condensing	optional 0° ~ 50°C -20°C heating set -20° ~ 80°C 5 ~ 90% non-condensing



BIEF DESCRIPTION

15" and 19" panel-PC Haptic Touch, contraption!!! • Glas or acrylic front • industrial hygiene compliance (food processing, hospital etc.) • front is justified in line with stainless steel front • available in IP65 (NEMA 4), IP67 (NEMA 6) and: Front even in German IP69k • Front cleanable w/ high-pressure water blaster • optional: contraption, already patented: TACTILE USER FEEDBACK • optional: Preparation for outdoor use to -20°C (-4F) • slim design, protection class IP54, optional up to IP65 (NEMA 4) • resistive touch screen or SAW type, authentication via RFID tag reader or fingerprint reader • optional VESA 75 retainer or 100 mm, Quicklock coupler/socket • Longterm-available PC components and service friendly construction • detachable shutter for extensions or cable guidance in the bottom.

OPERATING FIELD: Plant-floor, machine-building, automation, authentication, food processing

technical data

Type		15"	19"
Display		15" Color TFT mit 16,7 Mio. Farben 1024 x 768 Pixel 300 cd/m ² , 800:1 360/1000 cd/m ² , 800:1	19" Color TFT mit 16,7 Mio. Farben 1280 x 1024 Pixel 300 cd/m ² , 1300:1 360/1000 cd/m ² , 1300:1
Screen resolution			
Brightness / contrast			
Sunlight readable	optional		
Touchscreen	optional		
		resistive Glas-Glas-touch capacitive touch screen, behind front-flushing safety glas	
Mechanics			
physical dimensions	BxHxT	370 x 361,5 x 45 mm	458 x 440 x 45 mm
Weight		12 kg	14 kg
VESA retainer		100 x 100 mm / 75 x 75 mm	
CPU long-term available		Atom N270 N270 1,6 GHz 512KB L2, FSB533	Core 2 Duo T7500 2 x 2,2 Ghz 4 MB L2 FSB 800 T9300 2 x 2,5 Ghz 6 MB L2 FSB 800 T7100 2 x 1,8 Ghz 2 MB L2 FSB 800 M570 2,26 GHz 1 MB L2 FSB533
	optional		
	optional		
Memory		1 GB DDR2	1 GB DDR2, max 2 GB
Chipset		Intel 945GSE	Intel 965 GME (X3100)
Graphics		dual Grafik mit 224 MB	dual Grafik mit 384 MB
Watchdog		256 layers	256 layers
Drives		shock resistant mounting brackets	
HDD		2,5" 80- 320 GB IDE / Sata / CF-Card	2,5" 80- 320 GB Sata / IDE / CF-Card
Solid State Disk	optional	2 - 64 GB SSD SLC 2,5" / Disk on Module /	
Optical Drives	optional	CD-RW oder DVD-RW DL or Blue Ray with ejection aside	
Interfaces backside		1 x 1 Gbit LAN RJ45 IP67 1 x USB 2.0 IP67 1 x 1 Gbit LAN RJ45 IP67	1 x 1 Gbit LAN RJ45 IP67 1 x USB 2.0 IP67 1 x 1 Gbit LAN RJ45 IP67
	optional		
Internal Interfaces , optionally taken outside		3 x USB2.0, 1 x LPT, PS/2 (Y) 1 x RS232, 1 x RS232/485/422, Speaker, Mic, Line-In, HD-5.1 CF-II, 2 x RS232 Digital I/O 4/4	3 x USB 2.0, 1 x LPT, PS/2 (Y) 1 x RS232, 1 x RS232/485/422, Speaker, Mic, Line-In, HD-5.1 CF-II Digital I/O 4/4
Extensions			
Digital I/O			
Operating systems	optional	Windows 2000, XP, XPe, Vista, Windows 7, Linux, more upon inquiry	
Wi-Fi	optional	802.11 b/g/n	802.11 b/g/n
Operating voltages		24V DC with wide range input 9-36 V DC	
Power Consumption		~ 30 W	~ 65W
Power Input	optional	external power supply 100-245VAC 60W or 96W 0-W stand by - circuit	
Ambient temperature			
Operating temperature	optional	0° ~ 50°C -20°C heating set -20° ~ 80°C	0° ~ 50°C -20°C heating set -20° ~ 80°C
Storage temperature			
Relative humidity		5 ~ 90% non-condensing	5 ~ 90% non-condensing



BIEF DESCRIPTION

19" panel-PC massive aluminium enclosure, enodized • optional: Preparation for outdoor use to -20°C (-4F) • cooling fins on the panel's backside • slim design, protection class IP54, optional up to IP65 (NEMA 4), resistive touch screen or SAW type • authentication via RFID tag reader or fingerprint • optional VESA 75 retainer or 100 mm, Quicklock coupler/socket • Longterm-available PC components and service friendly construction • detachable shutter for extensions or cable guidance in the bottom.

OPERATING FIELD: Plant-floor, machine-building, automation, authentication

Type

Display

Screen resolution
Brightness / contrast
Sunlight readable
Touchscreen

optional
optional
optional

Mechanics

physical dimensions
Weight
VESA retainer

BxHxT

19"

19" Color TFT mit 16,7 Mio. Farben
1280 x 1024 Pixel
300 cd/m², 1300:1
360/1000 cd/m², 1300:1
SAW-Touch
5-wire resistive Touch
resistive Glas-Glas-touch

458 x 440 x 45 mm
12 kg
100 x 100 mm

CPU long-term available

optional
optional

Pentium M

M 745 1,8 GHz, 2 MB L2, FSB400

Celeron M 1 GHz FSB400

Core 2 Duo

T7500 2 x 2, 2 Ghz 4MB L2 FSB 800
T9300 2 x 2, 5 Ghz 6MB L2 FSB 800
T7100 2 x 1, 8 Ghz 2MB L2 FSB 800
M570 2,26 GHz 1MB L2 FSB533

Memory

Chipset
Graphics
Watchdog

1 GB DDR

Intel 855GME (Extreme Graphics 2)
dual Grafik mit 64 MB
256 layers

1 GB DDR2, max 2 GB

Intel 965GME (X3100)
dual Grafik mit 384 MB
256 layers

Drives

HDD
Solid State Disk
Optical Drives

optional
optional

shock resistant mounting brackets

2,5" 80- 250 GB IDE
2,5" 80 - 320 GB Sata / IDE / CF-Card
2 - 64 GB SSD SLC 2,5" / Disk on Module /
CD-RW oder DVD-RW DL or Blue Ray with ejection aside

Interfaces backside

optional

1 x 10/100 Mbit LAN RJ45 IP67
1 x USB 2.0 IP67
1 x 10/100 Mbit LAN USB Adapter

1 x 1 Gbit LAN RJ45 IP67
1 x USB 2.0 IP67
1 x 1 Gbit LAN RJ45 IP67

Internal **Interfaces**,
optionally taken outside

3 x USB 2.0, 1xLPT, PS/2 (Y)
2 x RS232
Speaker, Mic, Line-In, AC97
PC104+

3 x USB 2.0, 1 x LPT, PS/2 (Y)
1 x RS232, 1 x RS232/485/422,
Speaker, Mic, Line-In, HD-5.1
CF-II
Digital I/O 4/4

Extensions
Digital I/O

Operating systems

Wi-Fi

optional
optional

Windows 2000, XP, XPe, Vista, Windows 7, Linux, more upon inquiry

Operating voltages

Power Consumption
Power Input

optional
optional

~ 50 W

24V DC with wide range input 9-36 V DC

~ 60W
external power supply 100-245VAC 60W or 96W
0-W stand by - circuit

Ambient temperature

Operating temperature

optional

0° ~ 50°C
-20°C heating set

0° ~ 50°C
-20°C heating set

Storage temperature
Relative humidity

-20° ~ 80°C
5 ~ 90% non-condensing

-20° ~ 80°C
5 ~ 90% non-condensing

S-line kompakt

BIEF DESCRIPTION

kompakt 19" panel-PC capacity for extension cards and more drivers • varnished aluminium enclosure • 3 PCI/ISA Slots available • optional: Preparation for outdoor use to -20°C (-4F) • slim design, protection class IP54, optional up to IP65 (NEMA 4) • resistive touch screen or SAW type • authentication via RFID tag reader or fingerprint • optional VESA 100 retainer • longterm-available PC • easy-to-access maintenance door to connector board • components and service friendly construction • detachable shutter for extensions or cable guidance in the bottom.

OPERATING FIELD: Plant-floor, machine-building, automation, authentication, food processing



Type

Display

Screen resolution
Brightness / contrast
Sunlight readable
Touchscreen

optional
optional
optional
optional

Mechanics

physical dimensions
Weight
VESA retainer

BxHxT

19"

19" Color TFT mit 16,7 Mio. Farben
1280 x 1024 Pixel
300 cd/m², 1300:1
360/1000 cd/m², 1300:1
SAW-Touch
5-wire resistive Touch
resistive Glas-Glas-touch

458 x 440 x 150 mm
12 kg
100 x 100 mm

IPC Integration with 3 free connector slots

CPU long-term available

optional
optional
optional

Pentium M

M 745 1,8 GHz, 2 MB L2, FSB400

Core 2 Duo

T7500 2x2,2Ghz 4MB L2 FSB 800
T9300 2x2,5Ghz 6MB L2 FSB 800
T7100 2x1,8Ghz 2MB L2 FSB 800
M570 2,26 GHz 1MB L2 FSB533

Memory

Chipset
Graphics
Watchdog

1 GB DDR

Intel 855GME (Extreme Graphics 2)
dual Grafik mit 64 MB
255 layers

1 GB DDR2, max 2 GB

Intel 965GME (X3100)
dual Grafik mit 384 MB
256 layers

Drives

HDD
Solid State Disk
Optical Drives

optional
optional

shock resistant Installation

2,5" 80- 250 GB IDE
2 - 64 GB SSD SLC 2,5" / Disk on Module /
CD-RW oder DVD-RW DL or Blue Ray with ejection aside
2,5" 80 - 320 GB Sata / IDE / CF-Card

Interfaces backside

optional

1 x 10/100 Mbit LAN RJ45 IP67
1 x USB 2.0 IP67
1 x 10/100 Mbit LAN USB Adapter

1 x 1 Gbit LAN RJ45 IP67
1 x USB 2.0 IP67
1 x 1 Gbit LAN RJ45 IP67

Internal Interfaces, optionally taken outside

Extensions
Digital I/O

1 x USB 2.0, 1 x LPT, PS/2 (Y)
2 x RS232
Speaker, Mic, Line-In, AC97
CF-II

5 x USB 2.0, 1 x LPT, PS/2 (Y)
1 x RS232, 1 x RS232/485/422,
Speaker, Mic, Line-In, HD-7.1
CF-II
Digital I/O 4/4

Operating systems

Wi-Fi

optional
optional

Windows 2000, XP, XPe, Vista, Windows 7, Linux, more upon inquiry

Operating voltages

Power Consumption
Power Input

~ 60 W
optional
optional

802.11 b/g/n
internal power supply 100-245VAC 180W
~ 70W
24V DC with wide range input 9-36 V DC
0-W stand by - circuit

Ambient temperature

Operating temperature
Storage temperature
Relative humidity

optional

0° ~ 50°C
-20°C heating set
-20° ~ 80°C
5 ~ 90% non-condensing

0° ~ 50°C
-20°C heating set
-20° ~ 80°C
5 ~ 90% non-condensing



Mulder-Hardenberg B.V., The Netherlands
Tel.: +31 (0)23 - 531 91 84
info@mulder-h.biz

Mulder-Hardenberg N.V., Belgium
Tel.: +32 (0)3 - 660 13 20
info@mulder-h.biz

Mulder-Hardenberg GmbH, Germany
Tel.: +49 (0)6192 - 97 91 85
info@mulder-h.biz

www.mulder-hardenberg.com



BIEF DESCRIPTION

15" und 19" Panel • individually order your monitor panel • optional: Preparation for outdoor use to -20°C (-4F) • cooling fins on the panel's backside • slim design, protection class IP54, optional up to IP65 (NEMA 4) • resistive touch screen or SAW type • authentication via RFID tag reader or fingerprint • optional VESA 75 retainer or 100 mm Quicklock coupler/socket • components and service friendly construction • detachable shutter for extensions or cable guidance in the bottom.

OPERATING FIELD: Plant-floor, machine-building, automation, authentication

Type

Display

Screen resolution
Brightness / contrast
Sunlight readable
Touchscreen

optional
optional
optional
optional

Touchdriver-CD

Touch-Adapter

option

Mechanics

physical dimensions
Weight
VESA retainer

BxHxT

15"

15" Color TFT mit 16,7 Mio. Farben
1024 x 768 Pixel
300 cd/m², 800:1
360/1000 cd/m², 800:1
350 cd/m², 700:1
8-Draht resistive Touch

19"

19" Color TFT mit 16,7 Mio. Farben
1280 x 1024 Pixel
300 cd/m², 1300:1
360/1000 cd/m², 1300:1
1000 cd/m², 1000:1
5-Draht resistive Touch

resistive Glas-Glas-touch
SAW-Touch

DOS, Win 95 / 98, Windows 2000, XP, XPe, Vista, Windows 7
Linux, OS9 more upon inquiry

USB, RS232, PS2

370 x 361,5 x 45 mm
5 kg
100 x 100 mm / 75 x 75 mm

458 x 440 x 45 mm
6 kg

New

Display over Ethernet

optional

Innovative ethernet controller for Display control
a screen resolution of up to 1600 x 1200, 32 bit color.
Up to 3 USB 2.0 - connectors can be used
for input devices and extensions.

Interfaces

Extensions
Digital I/O

optional
optional

VGA / DVI
Video (Composite)
special timings / adaptations

Operating voltages

Power Consumption
Power Input

optional
optional

~ 30 W

24V DC with wide range input 9-36 V DC

35W

external power supply 100-245VAC 48W + internal power supply
0-W stand by - circuit

Ambient temperature

Operating temperature
Storage temperature
Relative humidity

optional

0° ~ 50°C
-20°C heating set
-20° ~ 80°C
5 ~ 90% non-condensing

0° ~ 50°C
-20°C heating set
-20° ~ 80°C
5 ~ 90% non-condensing

Accessories

A vast variety of S-Line accessories has been developed especially for industrial need and offers the option for an individual configuration.



Keyboard Key Modules

For all models. Vertically attachable on either side and horizontally at the bottom side.



RFID Tag Reader

Supporting all well-known 13,56 MHz RFID- and SmartCard systems with ranges up to 70mm. The supported card systems are: MiFare, Legic, ISO 14443 A/B, ISO 15693, I-Code, my-d, Tag-it.



UPS Integration

Integration possible to all models. Power consumption/wattage as low as 60 to 120 W. Up to 45 minutes bridging time, extendable to 90 minutes.



1D / 2D Barcode Scanner

The built-in-scanner is being fixed into a spare extension cavity and, in Premium S-Line, it can be mounted either on the left or on the right in the lower enclosure area. The scanner has a read-range of 90mm to the object and is also splashproofly mounted behind a plastic window.



Keyboards

For all models there are keyboards, foil keyboards and/or key modules available. Watching from foil keyboards to violence-protected high-grade-steel keyboards, all of our options are possible



Fingerprint Reader (Digital Persona Pro)

Biometric authentication from up to 10 fingers per person this reader is scalable to a group of many hundred thousand users. Opposing to Wipe-scanners, this system is very secure against cheating attempts. With it's toolkit integrated in an Active Directory system, this reader eases the administration of the Microsoft operating systems XP / Vista / X7.



Wi-Fi

Wi-Fi is available for all models. All integrations obey IEEE 802.11 b/g/n standard. All further standards can be achieved upon your request.



Electronic-Key-Subsystem (Euchner)

A readable and rewritable transponder with E²-PROM is usually being appraised inside a reader, what brings advantages when deciding about a security process. An Active-X connection for visualization and a centered user management for windows are also easy to obtain.



Communication Interfaces

Besides the standard ethernet interface, the integration of different communication ports are possible. According to the PC-configuration you've chosen, the communication interfaces are implemented as an adapter or as a mini-PCI-e module and come equipped with drivers for Profibus, MPI, PPI, InterBus, CAN, 3964R.



Magnetic Cards Reader

In the extension cavity in the lower area of the panel or also aside at the upper area, a magnetic cards reader can be integrated. The manually triggered reader can be adjusted to the standard ISO-track type 1, 2, and 3.



Colors and Decor

Individually designed system front in desired color. All paintings are possible in standards according to the German RAL color system.



Mobile Hand Scanner and Printer

Via the grommets below the bottom of the PC enclosure you can connect serial, USB and parallel Devices as well as printers can be connected to the PC.



Surface

Glas and touch screen surfaces are resistant against acids, different types of oil, e.g. quaril or skydrol.



HMI/SCADA

Wonderware is our partner regarding visualization project.

Girders and more...



changing panels within **30** seconds

High-availability by patented QuickLock - quick-exchange coupler

QuickLock



The patented quick-exchange coupler from CRE Rösler Electronics GmbH. Unique in design and handling matters. Exclusively for the S-Line premium. Signal transmission: Local Area Network, Ethernet, operating power, USB, IP address detection.

QuickLock Vesa



For all models. Signal transmission: Local Area Network, Ethernet, operating power, USB, IP address detection.

VESA II turn-bent coupler



For all models. Turn-bent-coupler with inboard cable guidance, extendable with QuickLock VESA. Carries up to 20 kg.

VESA I turn-bent coupler



For all models. Turn-bent coupler with outside cable guidance. Carries up to 20 kg.

Stainless Steel Girder



For all models. Provides fixed table mount. Height-adjustable bent coupler.

S-Line Lift / Hoisting Pillar



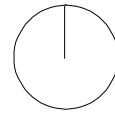
We provide a diversity of variants and solutions for you.

Please send us your special requirement specification and we are looking forward to presenting you an appropriate solution.



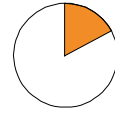
0 sec

loosen
lockscrews



10 sec

removing old unit,
easy as taking a picture from the wall



20 sec

mounting new unit



30 sec

tightening lock crews.
The unit logs in by itself

