CHALLENGER Lite



Remote PC terminals & HMIs for industrial productions areas







CHALLENGER Lite

"The PC terminal for industrial production areas"

CHALLENGER 15 Lite CHALLENGER 18 Lite

















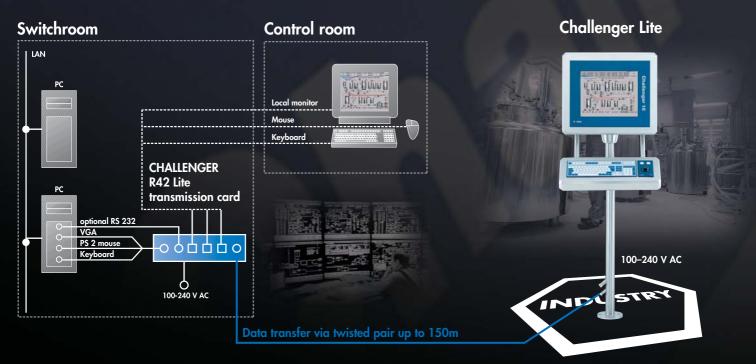


The CHALLENGER Lite PC terminals are designed for a wide range of production areas.

The mouse/VGA/keyboard ports of a PC are connected to the appropriate inputs of our compact TCV2 Lite transmission card to ensure optimal image transfer. This transfers the data up to a maximum of 150 m to the CHALLENGER Lite on location (see Operational Principle). Conventional connecting lines between the PC and the transmission card, and from the twisted pair CAT 7 cable to the terminal, ensure the simplest and lowest-cost installation possible.

All the operation and visualization components such as the touch screen, card reader, fingerprint sensor, joystick for this have been designed as modular elements (protection class: IP 66 / Nema 4x) suitable for industrial use and can be integrated in a stainless steel enclosure without any problems.

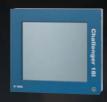
OPERATIONAL PRINCIPLE



MODULAR COMPONENTS



VISUALIZATION





TFT Display

- Panel mount design
- Protection class IP 66 / Nema 4x
- 15" screen diagonal (up to XGA) 19" screen diagonal (up to SXGA)
- Capable of displaying more than 16 million colors Brightness up to 650 cd/m² (more on request)

OPERATION



- Panel mount design
- Protection class IP 66 / Nema 4x
- Resistive touch foil
- 5-wire technology (can be operated while wearing gloves or using a pen)
 - Connection: RS 232 serial
- interface



Touch pad

- Panel mount design
- Protection class IP 66 / Nema 4x
- Special resistive foil
- High-resolution up to
- 1000 lines/inch
- 2 push-buttons



Joystick

- Panel mount design
- Protection class IP 66 / Nema 4x
- High-precision mouse guidance Wearless up to 15 million
- actuations
- Extremely low-maintenance
- 2 push-buttons



Trackball

- Panel mount design
- Protection class IP 65 / Nema 4x
- 55 mm ball
- 2 push-buttons



Keyboard

- Panel mount design
- Protection class IP 66 / Nema 4x 105 keys, IBM-compatible
- Standard layouts: German, English, French (further languages and special layouts on request)
- Resistant against most solvents



Mouse

- Panel mount design
- Protection class IP 66 / Nema 4x
- 4-step pressure-sensitive mouse guidance
 - 2 push-buttons

IDENTIFICATION

"CFR 21 part 11"



Card Reader

- Panel mount design
- Protection class IP 66 / Nema 4x
- Non-contact identification
- Mifare protocol as standard
- (others on request)
 Suitable for the majority of company IDs
- Connection: RS 232 serial interface



"CFR 21 part 11"

Fingerprint Sensor

- Panel mount design
- Protection class IP 66 / Nema 4x
- Contact identification < 500 dpi
- Via C-MOS sensor
- Connection: RS 232 serial interface

ENCLOSURE







OPTIONS

- RS 232 interface
- Audio interface
- Universal video interface UVI
- Barcode scanner interface
- Adjustable image optimization via keyboard
- Emergency stop button

Configure your CHALLENGER Lite according to the features of your production plant

www.GECMA.com

TECHNICAL DATA

Video

Resolution:

max. 1,600 x 1,280 pixels

Transfer range: 10 to 150 meters

Keyboard / mouse

Interface/transfer:

PS/2, Intellimouse

RS 232 (optional)

- Transfer rate:

38,400 bit/s

- Transferable signals: TxD, RxD, RTS, CTS, DTR, DSR

Audio (optional)

Resolution:

- Sampling rate: - Bandwidth: - Microphone preamplification: 18 bit digital 48 kHz 22 kHz

20 dB

Enclosure (maximum values)

Dimensions: Rack 42 Lite (transmission card): Rack 84 Lite (transmission card): $W \times H \times D$ in mm / weight in kg: $210 \times 45 \times 225 \text{ mm} / \text{approx. } 1.2 \text{ kg}$ $210 \times 45 \times 482 \text{ mm} / \text{approx. } 1.3 \text{ kg}$

Transfer cable:

CAT 7 recommended, CAT 5 and CAT 6 also possible

Power supply:

100 - 240 VAC 50/60Hz

Rack 42 Lite / 84 Lite max. 20W (fuse 0.5A T) CHALLENGER Lite max. 70W (fuse 2A T)

Temperature range:

Humidity:

- 10° C to + 55° C (extendable to - 30° C) 10 % to 90 % relative humidity, not condensing

Operator interlock on local or remote side through integrated software.

Do you require additional information?



Configurator





Products



Technical drawings



Calls returned within 24 hours



Offer made within 48 hours



Delivery within the space of few weeks



Configurate your Terminal under www.GECMA.com



A member of The MTL Group of Companies DIN ISO 9001:2000 certified

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