terra

IT. MADE IN GERMANY.

Windows 10 Pro

(intel)

TERRA PC

TERRA PC-MICRO
TERRA PC-MINI

TERRA BUSINESS PC
TERRA WORKSTATION
TERRA HOME/GAMER PC
TERRA ALL-IN-ONE

MARATHON TECHNOLOGY

BUILT-TO-ORDER
SERVICE / FINANCING

2018
2019

WORTMANN AG

IT. MADE IN GERMANY.

Dear Sir or Madam

the desktop PC - A forgotten star.

Stars are always in the limelight - only success and fame are important to them. Transferred to IT you could think of device classes such as netbooks - celebrated a few years ago as a star in the IT sky. Meanwhile no longer found on the market. Replaced by Ultrabooks & PADs.

The desktop PC, on the other hand, continues to write modestly about its success story - for more than 30 years now. Also or maybe because in the meantime it is available in many innovative form factors.
A quarter of all TERRA desktop systems sold are no longer produced in the classic Miditower, but in small, compact micro or mini formats and in the ever-growing all-in-one PC segment.

The platforms available have many advantages that hardly a mobile device can match. The systems are very individual to configure, allow ergonomic work with multiple screens, are easy to maintain and robust. In addition there are "24-7" suitable products. In this way we offer suitable solutions for the progressive digitization.
Of course, the desktop PC is not an outstanding growth market as it was in previous years. Mobile platforms certainly have more charm for many users. But for productive work, there is nothing better than a classic PC
or a workstation.

The dusty and antiquated desktop is not dead yet and remains
a technology driver with new styles. In a still lucrative market.

However, the development of more mobile solutions and cloud products can not be stopped, but you can try to design them. And that's exactly what Wortmann AG does. Benefit from the most comprehensive portfolio in the German market at the most successful independent IT manufacturer in Europe.

Volker Kaps
Product manager PC
WORTMANN AG

**Take advantage of our
Flexibility and reliability.**

Volker Kaps

Contents

TERRA BUSINESS RANGE

intel

Windows 10 Pro

Office 365

SILENT **GREEN LINE**

CURRENT
TECHNOLOGY IN
COMPACT FORM

Windows 10 Pro

19V, 65W power connection

HDMI

LAN RJ-45

USB Type C

19V

HDMI

2x USB 3.0

51 mm

Power Button

115 mm

111 mm

SD

Infrared Sensor

2x USB 3.0

Headphone/microphone

intel CORE i3 7th Gen

intel CORE i5 7th Gen

intel CORE i7 7th Gen
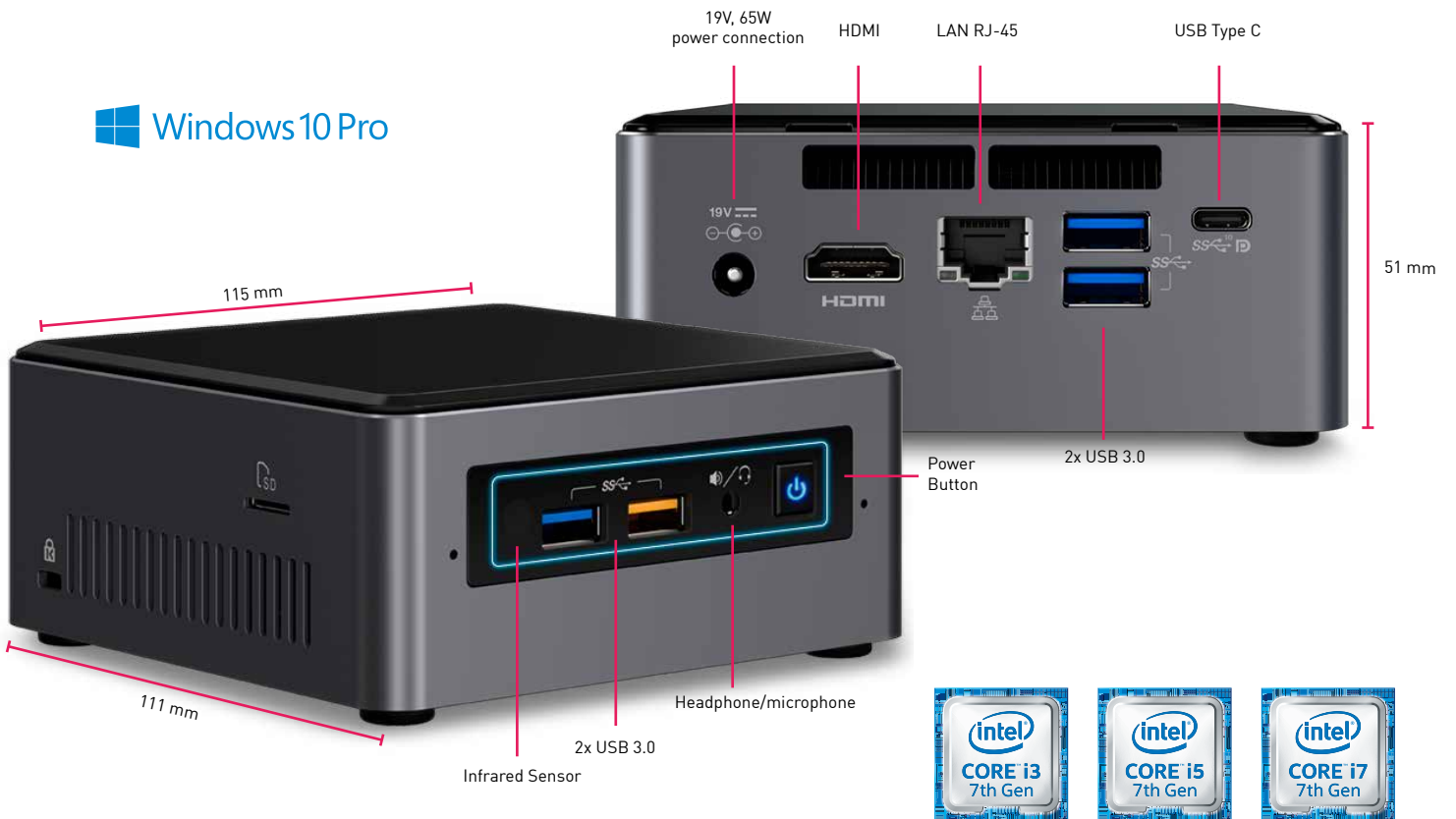
The TERRA PC-MICRO

With the TERRA PC-MICROs you get compact, powerful, quiet and energy-saving systems that can be used in a variety of ways.

By using Intel Mobile technologies, these systems offer low energy consumption.

TERRA PC-Micro systems support dual or triple monitoring (model dependent) for efficient multi-screen operation.

The included VESA mounting kit allows the Mounting behind a TFT display or directly on a table or wall mount.

04 _ TERRA PC-MICRO

TERRA PC-MICRO MODELS

PC-MICRO 3000

Micro Format

Deployment areas
- Perfect in the living room for home entertainment
- Ideal for combination with private NAS systems
- Small home office applications

Characteristics
- Extremely cheap to buy
- High-performance SSD storage medium
- WiFi + Bluetooth integrated
- Incl. VESA mounting kit for mounting behind TFT Displays or in conjunction with table or wall mounts

PC MICRO 5000

Micro Format

Deployment areas
- Standard office applications
- Pharmacies, doctors, hotels, schools

Characteristics
- Intel® Core i3 processor
- High-performance SSD storage medium
- WiFi + Bluetooth integrated
- Incl. VESA mounting kit for mounting behind TFT Displays or in conjunction with table or wall mounts

PC-MICRO 6000

PC-MICRO 7000

Micro Format

Deployment areas
- Intensive office and office applications
- Digital Signage
- Point of Sales (POS)
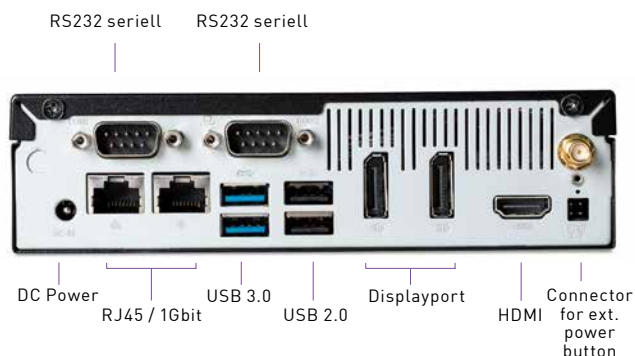- Point of Interest (POI)

Characteristics
- Powerful Intel® Core i5 / i7 processor
- High-performance SSD storage medium
- WiFi + Bluetooth integrated
- Incl. VESA mounting kit for mounting behind TFT Displays or in conjunction with table or wall mounts

Mounting example on LCD

MARATHON

SILENT

GREEN LINE

VERSATILE, 24-7 READY: TERRA PC-MINI

Small, quiet, powerful and smart

Windows 10 Pro

RS232 seriell   RS232 seriell

DC Power   RJ45 / 1Gbit   USB 3.0   USB 2.0   Displayport   HDMI   Connector for ext. power button

The TERRA PC-MINI in robust all-metalCasing. With its low height of 43 mm and a volume of only 1.33 liters, the selection of Intel processors and numerous interfaces, this platform allows the use in special applications.

Available with processors up to the Core i7 range and combined with fast SSD storage, the 3rd Generation TERRA PC-MINI is more powerful than ever.

As a compact business PC or with a Release for 24/7 continuous operation (with suitable hard disks / SSDs) as IPC solution, for digital Signage as well as POS applications, this PC is very versatile.

The system also supports dual monitor via HDMI and Display Port up to 4K Ultra HD Resolutions.

With the optionally available VESA mount

the TERRA PC-MINI can also be attached directly to a suitable LCD display and it fits perfecty in environments with little space.

TERRA PC-MINI MODELS

PC-MINI 5000

Mini Format

Deployment areas
- Standard office and office applications
- Digital Signage
- Point of Sales (POS)
- Point of Interest (POI)
- Pharmacies, doctors, hotels, schools
- POS Systems

Characteristics
- Intel® Core i3 processor
- High performance SSD storage media
- Flexible with standard desktop processors
- WiFi + Bluetooth integrated
- Two SSDs in one system possible (1x M.2, 1x 2.5" SSD)
- 2x serial interfaces (1x RS-232, 1x RS-232 / RS-422 / RS-485)
- 2x Gigabit Ethernet LAN (RJ-45): Supports teaming feature
- Optional: VESA mounting kit
- Optional: external power switch (60 cm cable length)

PC-MINI 6000

Mini Format

Deployment areas
- Advanced office and office applications
- Digital Signage
- Point of Sales (POS)
- Point of Interest (POI)
- Pharmacies, doctors, hotels, schools
- POS Systems

Characteristics
- Powerful Intel® Core i5 processor
- High performance SSD storage media
- Flexible with standard desktop processors
- WiFi + Bluetooth integrated
- Two SSDs in one system possible (1x M.2, 1x 2.5 "SSD)
- 2x serial interfaces (1x RS-232, 1x RS-232 / RS-422 / RS-485)
- 2x Gigabit Ethernet LAN (RJ-45): Supports teaming feature
- Optional: VESA mounting kit
- Optional: external power switch (60 cm cable length)

ACC-
ESSO-
RIES

ACCESSORIES TERRA PC-MINI

The optimal functional extension

The optional accessories for the TERRA PC-MINI and the TERRA PC-MICRO expand the range of application for these two devices.
With the practical VESA monitor brackets you integrate the equipment discreetly and safely in various environments.

TERRA PC-MINI &
PC-NETTOP 3030

VESA wall mount
Item no .: 1407064

This bracket allows you to mount the TERRA PC-MINI behind a TFT with VESA mount and then mount this unit together on a wall or desk mount.

TERRA PC-MINI &
PC-NETTOP 3030

VESA bracket V1.1
Item no.: 1407056

VESA mounting kit 75/100 mm for mounting the TERRA PC-MINI on a standard TFT display VESA mount or on a wall mount.

Delivery:
2x metal bracket, 4x screws (M4), and 4x thumbscrews (M3). Depending on the display, shorter or longer M4 screws may be needed.

TERRA PC-MINI &
PC-NETTOP 3030

External power switch
Item no.: 1407060

This article makes it possible to conveniently turn on the TERRA PC-MINI, e.g. attached behind a TFT display.

Delivery:
External power switch with 60 cm cable.

AND PC-MICRO

Extremely practical and space-saving:
The TERRA PC-MINI with the multifunction foot.

TERRA PC-MINI & PC-NETTOP 3030

LCD multi-functional foot holder
Item No.: 1400033

Aluminum bracket for TERRA PC-MINI *, for mounting on a height-adjustable TERRA TFT display the PV series or on the TERRA LCD multifunction stand.

The height adjustment, pivot and swivel function is completely retained.

* when attaching the PC-MINI / PC Nettop 3030 the optional standard VESA mounting kit (Item 1407056) is mandatory.

TERRA PC-MICRO, TERRA PC-MINI & PC-NETTOP 3030

Multifunction holder VESA 75/100
Item No.: 3039002

Mounting kit for attachment of e.g. TERRA PC-MICRO, PC-MINI, ThinClient or Nettop with VESA mount option on the height-adjustable TERRA LCD displays of the PV Series or in conjunction with the TERRA LCD multifunction foot.
The height adjustment, pivot and swivel function is completely retained.

Delivery:
2x VESA 75/100 metal bracket, 4x M4x6 screws, 4x nuts M4.

TERRA PC-MICRO, TERRA PC-MINI & PC-NETTOP 3030

Multifunction TERRA LCD Series 2X35W series
Item no.: 1407067

Mounting kit for mounting a TERRA PC-MICRO / PC-MINI * / Nettop 3030 * on a height-adjustable TERRA LCD model 2235W HA or 2435W HA.

The height adjustment function is completely retained.

* when attaching the PC-MINI / PC Nettop 3030 the optional standard VESA mounting kit (Item 1407056) is mandatory.

TERRA standard systems and PC-positioning

TERRA Standardsystems

We offer a wide range of predefined systems. Choose from a variety of different models for the business, Workstation, Medical, Industry, Home or Gamer area. Standard systems are prefabricated, stored and can be delivered promptly.

Naming

Business-Segment/ Home-Segment

Power class of the devices: e.g. 6xxx series with Core i CPU, 4x00 series with dual-core CPU and separate graphics card

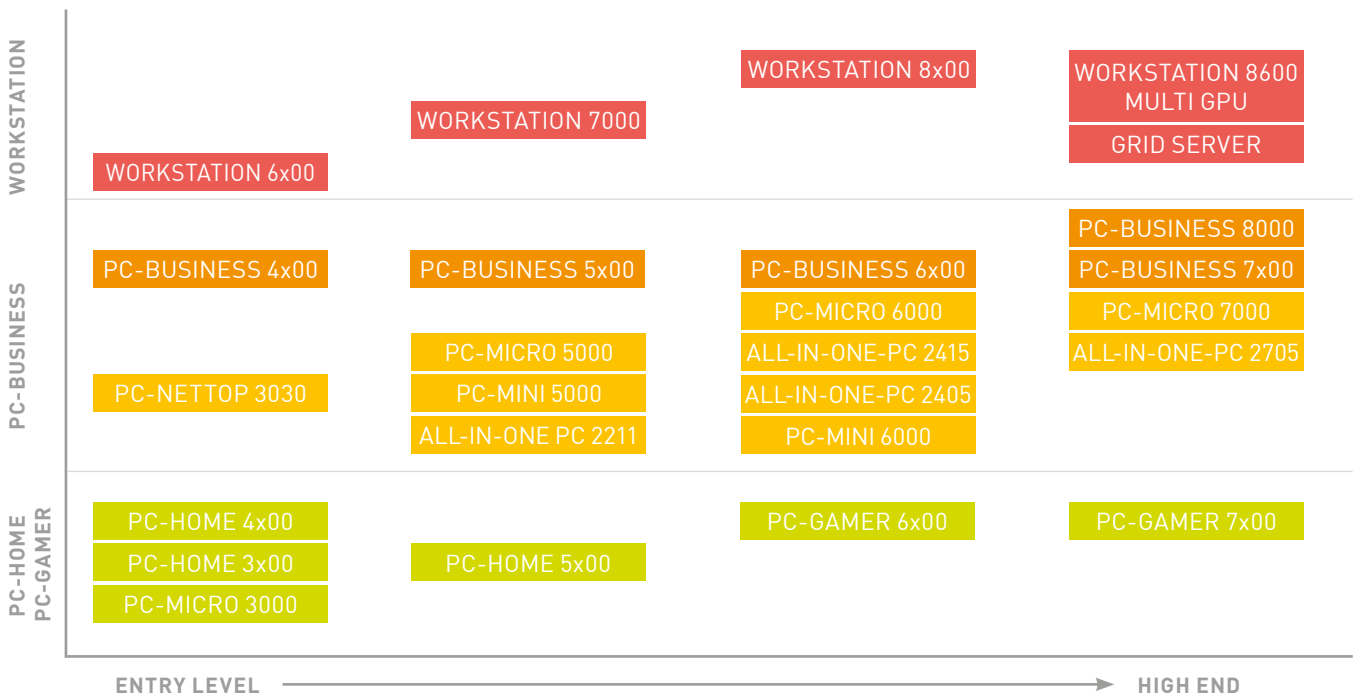## TERRA PC-BUSINESS 6000 SILENT+ GREENLINE

Devices meet the Energy Star standard or have low power consumption due to their design

Brand

Product Type: Desktop PC / Workstation / Nettop / All-in-One

Silent: 22.8 to <28 dB (A)
Silent +: 18-22 dB (A)

TERRA PC positioning

WORKSTATION			WORKSTATION 8x00	WORKSTATION 8600 MULTI GPU
		WORKSTATION 7000		GRID SERVER
WORKSTATION 6x00				

PC-BUSINESS 8000

PC-BUSINESS 4x00	PC-BUSINESS 5x00	PC-BUSINESS 6x00	PC-BUSINESS 7x00
		PC-MICRO 6000	PC-MICRO 7000
	PC-MICRO 5000	ALL-IN-ONE-PC 2415	ALL-IN-ONE-PC 2705
PC-NETTOP 3030	PC-MINI 5000	ALL-IN-ONE-PC 2405	
	ALL-IN-ONE PC 2211	PC-MINI 6000	

PC-HOME 4x00		PC-GAMER 6x00	PC-GAMER 7x00
PC-HOME 3x00	PC-HOME 5x00		
PC-MICRO 3000			

ENTRY LEVEL → HIGH END

Enclosure types & form factors

TERRA PC 607

TERRA MIDI Tower

Standard Systeme:
PC-BUSINESS 4000
PC-BUSINESS 5000
PC-BUSINESS 6000
PC-BUSINESS 7000

Deployment areas
General office environments, schools, classrooms,
Doctors, hotels, etc.

Characteristics
• 2x USB 3.1 Gen.1 type A in the front
• Mic-In, Line / Head-Out in the front
• Side panels individually removable
• Freely configurable with standard components

TERRA PC 611

TERRA MIDI Tower PRO

Standard System:
WORKSTATION 6x00

Deployment areas
Workstations, standard PCs with multiple
optical drives, small server systems

Characteristics
• 2x USB 3.1 Gen.1 type A in the front
• Mic-In, Line / Head-Out in the front
• 4x 5.25 "bays
• Up to 4x 3.5 "(2.5") HDD / SSD mountable
• Tool-less installation possible (except HDD)

TERRA MINI-ITX

TERRA COMPACT

Standard System:
PC-BUSINESS 5000

Deployment areas
General office environments, schools, classrooms,
Doctors, hotels, etc.

Characteristics
• Only 5 liters of volume
• Can be used horizontally and vertically
• 2x USB 3.1 Gen.1 type A in the front
• Mic-In, Line / Head-Out in the front
• Cardreader for MS / SD / MMC formats
• Optional: cover for VESA attachment

Enclosure types & form factors

TERRA MIDI Tower

Standard System:
WORKSTATION 7x00

Deployment areas
Workstations, especially quiet business PCs, gaming
Characteristics
• Incl. HDD vibration decoupler
• Cardreader for SD / SDHC formats
• Soundproof front door, soundproof side panels
• 1x USB 3.1 Gen.1 type A / 1x USB 2.0 front in the front
• Mic-In, Line / Head-Out in the front
• Freely configurable with standard components

TERRA PC H200

SLIM DESKTOP

Standard System:
PC-BUSINESS 5000
PC-BUSINESS 6000

Deployment areas
General office environments, schools, classrooms,
Doctors, hotels, etc.
Characteristics
• 2x USB 3.1 Gen.1 type A in the front,
  optional up to 4x USB3.1
• Mic-In, Line / Head-Out in the front
• Can be used horizontally and vertically
• Back completely closed by cover
• With VESA stand (optional) and LCD display
  Convertible to the space-saving AIO device
• Freely configurable with standard components

TERRA PC MINI

TERRA MINI

Standard Systeme:
PC-MINI 5000
PC-MINI 6000

Deployment areas
Digital signage, point of interest (POI), point of sale (POS),
Hotels, doctors, schools, general office environments
Characteristics
• Low volume and small footprint
• Incl. WiFi + Bluetooth
• 6x USB 2.0, 2x USB 3.1 Gen.1 type A, 2x serial
• Cardreader for SD / SDHC / SDXC formats
• Approved for 24/7 operation (1)
• Max. Operating temperature 50 ° C (2)
• Configurable with standard components

1) with suitable HDD / SSD. Regular fan maintenance required. 2) Note: For high ambient temperatures over 40 ° SSD drives are recommended and SO-DIMM memory with extended temperature range.

Enclosure types & form factors

TERRA PC MICRO

TERRA MICRO

Standard System:
PC-MICRO 3000
PC-MICRO 5000
PC-MICRO 6000
PC-MICRO 7000

Deployment areas
Digital signage, point of interest (POI), point of sales (POS), Living rooms, hotels, doctors, schools, general office environments

Characteristics
• Extremely low volume and small dimensions
• Incl. Wi-Fi and Bluetooth
• Incl. VESA mounting kit
• Up to 3x USB 3.0 (depending on the model)

TERRA PC 311

TERRA MINI Tower

Standard Systeme:
PC-BUSINESS 4000
PC-BUSINESS 5000
PC-BUSINESS 6000

Deployment areas
General office environments, schools, classrooms, Doctors, hotels, etc.

Characteristics
• 2x USB 3.1 Gen.1 type A in the front
• Mic-In, Line / Head-Out in the front
• Comfortable: 1x side panel individually removable
• Freely configurable with standard components

TERRA PC NETTOP

TERRA NETTOP

Standard System:
NETTOP 3030

Deployment areas
Offices, Receptions, call centers, POS systems, libraries, hospital rooms with simple standard applications. Ideal for controlling large format displays with Full HD resolution.

Characteristics
• Released for 24/7 operation1)
• Incl. WiFi + Bluetooth
• 2x USB 3.1 Gen.1 type A, 4x USB 2.0, 2x serial
• Fanless cooling
• Optional: VESA mounting kit

TERRA PC 605

TERRA MIDI Tower

Standard System:
PC-HOME 5000
PC-HOME 6000
PC-GAMER 6x00

Deployment areas
Home PCs, Gamer PCs, General Office Environments

Characteristics
• 2x USB 3.1 Gen.1 Type A + 2x USB 2.0 in the front
• Mic-In, Line / Head-Out in the front
• Cardreader for SD / SDHC formats
• Front in a chic high gloss design
• Freely configurable with standard components

What makes a business PC a business system?

What makes a TERRA Business PC a business system?
In contrast to a workstation that is used for intensive CAD applications and is usually produced in tower cases due to the special selection of components such as powerful and optimized CAD graphics cards and processors, you will receive business PCs in a wide variety of form factors.

The product range for the business sector has steadily increased in recent years due to the increased demands and the new fields of application.

In the past, the typical business PC form factor was a desktop or tower for the office and ERP Workplace, now there are mini, micro, convertible small desktop and nettop systems.

The trend towards ever smaller form factors goes hand in hand with technological change. Powerful main and graphics processors are manufactured as a single unit, controllers are integrated, and the ability to produce powerful systems on the smallest motherboards has grown, not least because of the need for small mobile systems.
An office or ERP workstation is no longer characteristic for a business PC.
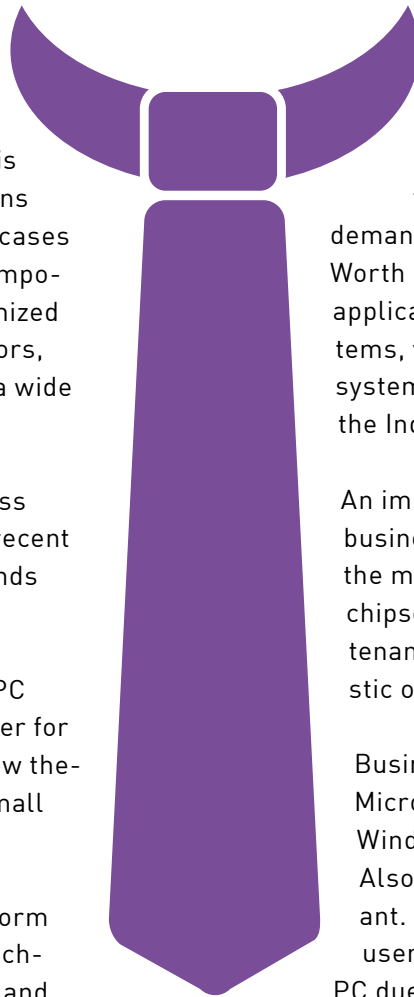
The areas of application of the new Business PC are diverse ,in addition to the general demand,and due to the new form factors,they are very in demand.
Worth mentioning are the new fields of applications,such as digital signage, POS systems, vending machines, kiosk and checkout systems, as well as and especially through the Industry 4.0 trend, machine control.

An important differentiating feature for a business PC is an optimized chipset for the motherboard. In particular, the Intel Q chipset series with Intel vPro remote maintenance and inventory function is characteristic of Business PCs.

Business PCs also have, as long as one Microsoft operating system is installed, Windows 7 Professional or Windows 10 Pro. Also possible is a Windows Embedded variant. Windows 10 Home is designed for home users and is not suitable for the business PC due to the partially limited functionality.

Graphics and sound cards for the private end user can not be obtained in Business PCs. If a discrete graphics card is required, passively cooled, quiet variants are used. Many systems have the option to connect multiple LCDs directly. The connection of two or three monitors is normaly possible with Business PC's with the expansion of a discrete graphic card.

Product overview TERRA PC-Business

Windows 10 Pro

intel

TERRA MINI Tower   **TERRA MIDI Tower**   **TERRA MIDI Tower PRO**

Model:	PC 311	PC 607	PC 611
Design	Micro-ATX Minitower	ATX Miditower	ATX professional Miditower
Motherboard	Micro-ATX	Micro-ATX/ATX	Micro-ATX /ATX
Colour	Black/Silver or. White/Black	Black/Silver	Black/Silver
Dimensions (WxHxD)	180 x 375 x 390 mm	181 x 436 x 430 mm	200 x 445 x 500 mm
5,25" extern	2	2	4
3,5" extern	1	2	1
3,5" intern	1	2	4
2,5" intern	1	1	–
Toolless opening	Optional	Yes	Yes
Tool-free assembly	Partially	Partially	Yes
Lockable	Optional	Optional with lock	Yes
Kensington Lock	Yes	Optional	Yes
Case-Open-Switch	No	Optional	Optional
Power adapter	ATX	ATX	ATX
TFX 300 Watt / 80 plus	–	–	–
Flex ATX 250W	–	–	–
ATX 350-1200 Watt	Yes	Yes	Yes
ATX redundant	–	–	–
USB in Front	2x USB 3.1 Gen.1 Typ A	2x USB 3.1 Gen.1 Typ A	2x USB 3.1 Gen.1 Typ A
Audio in Front	Yes	Yes	Yes
Chassis fan	Optional 1x 92 x 92 oder 80 x 80 front, 1x 80 x 80 mm rear	Optional 2x 80 x 80 front, 1x 80 x 80 mm rear	Optional 1x 92 x 92 mm or 80 x 80 mm front, 1x 92 x 92 mm or 120 x 120 mm rear
Features	One side removable	Individually removable side panels	One side removable

Product overview TERRA PC-Businessw

Windows 10 Pro

intel

+ SOUND-PROOFING
+ HDD VIBRATION DECOUPLER

+ VESA stand holder for LCD

+ SMALL AND
+ VESA MOUNT
+ EXTERNAL PSU

Model	TERRA TOWER	TERRA SLIM Desktop	TERRA PC Micro
	Silencio 551	H200	Intel® NUC
Design	ATX Midi-Tower	Micro-ATX, Slim-Desktop	Intel® NUC
Motherboard	Micro-ATX / ATX	Micro-ATX	Intel® NUC
Colour	Black	Black	Anthracite/Black
Dimensions (WxHxD)	200 x 432 x 480 mm	341 x 95 x 380 mm	116 x 34-51 x 112 mm
5,25" extern	5	1 (Slim-ODD)	-
3,5" extern	1	1 (Slim)	-
3,5" intern	3	1	-
2,5" intern	-	-	up to 1x; model dependent+ 1x M.2
Toolless opening	Yes	Yes	No
Tool-free assembly	Yes	Yes	No
Lockable	Optional	Yes	No
Kensington Lock	Yes	Yes	Yes | No (5000P)
Case-Open-Switch	Optional	Optional	No
Power adapter	ATX	TFX	Extern
TFX 300 Watt / 80 plus	–	Yes	–
Flex ATX 220W	–	–	–
ATX 350-1200 Watt	Yes	–	–
ATX redundant	–	–	–
USB in Front	1x USB 2.0, 1x 3.1 Gen.1 Typ A	2x USB 3.1 Gen.1 Typ A	2x USB 3.1 Gen. 1 Typ A
Audio in Front	Yes	Yes	Yes
Chassis fan	1x 120 x 25 mm front, 1x 120 x 25 mm rear	1x 70 x 70 x 25 mm	Proprietary | None (5000P)
Features	Sound-insulated, incl. HDD vibration decoupler	Concealed and lockable rear, VESA stand for LCDs (optional).	Supports up to 3x displays (depending on model), VESA mount

Product overview TERRA PC-Business

Windows 10 Pro

(intel)

+ 24/7 OPERATION
+ VESA MOUNT (OPTIONAL)
+ EXTERNAL PSU

+ FANLESS
+ VESA MOUNT
+ EXTERNAL PSU

+ CARDREADER
+ ITX FORM FACTOR
+ VESA MOUNT (OPTIONAL)
+ INTERNAL PSU

TERRA PC-MINI   **TERRA NETTOP**   **TERRA COMPACT**

Model	TERRA PC MINI	TERRA NETTOP	TERRA COMPACT
Design	Proprietary	Proprietary	Mini-ITX
Motherboard	Proprietary	Proprietary	Mini-ITX
Colour	Black	Black	Black
Dimensions (WxHxD)	165 x 43 x 190 mm	165 x 43 x 190 mm	254 x 88 x 219 mm
5,25" extern	–	–	1 (Slim-ODD)
3,5" extern	–	–	–
3,5" intern	–	–	1 (2.5" HDD)
2,5" intern	1 + 1x M.2 (2242/ 2260)	1 + 1x M.2 (2280)	2x 2,5" SSD/HDD
Toolless opening	No	No	No
Tool-free assembly	No	No	No
Lockable	Yes, with Kensington Lock	No	Optional
Kensington Lock	Yes	Yes	No
Case-Open-Switch	No	No	Optional
Power adapter	Extern	Extern	Flex ATX
TFX 300 Watt / 80 plus	–	–	–
Flex ATX 250W	–	–	Yes
ATX 350-1200 Watt	–	–	–
ATX redundant	–	–	–
USB in Front	2x USB 3.1 Gen.1 Typ A, 2x USB 2.0	2 x USB 3.1 Gen.1 Typ A	Yes, 2x USB 3.1 Gen.1 Typ A
Audio in Front	Yes	Yes	Yes
Chassis fan	Proprietary	Fan free	–
Features	Supports up to 2x displays, 2x COM port, suitable for 24/7 operation, Optional VESA mount	Supports up to 2x displays, 2x COM port, suitable for 24/7 operation, Optional VESA mount	Cardreader, Optional VESA-Mount for LCD, PSU 24/7 ready

TERRA SLIM-PC H200

Innovative convertible Slim Desktop PC with optional Stand for LCDs.

Compact, high-performance TERRA Business PC with Intel technology. Space saving in the innovative Small Form Factor (SFF) housing.

The system is protected with the back cover against unintentional disconnection of the cables. In addition, the cover can be closed and prevents access to all the rear connections.

The optional stand mount, combined with a VESA LCD display, turns the PC into an extremely space-saving all-in-one system. Ideal for schools, offices and reception areas

Interface Cover

FEATURES	TERRA PC-BUSINESS 5000/6000 Silent
Processor	Intel® Core i3 / i5/ i7 Processor, AMD Ryzen Sockel AM4
Operating system	Windows 7 Professional, Windows 10
Motherboard	Micro-ATX
Memory	4 to 64 GB DDR4
Storage Medium	1x 3.5" + 1x 2.5" SSD oder 2x 2.5" SSD
Optical drive	Slim-Format
Cardreader	Slim-Format
Graphic	Integrated discrete graphics card in low Profile format
Interfaces	up to 4x USB in Front, Mic-In, Line-Out
Characteristics	VESA stand for TFT display Mounting optional, horizontal and vertical system
OTHER	
Service	24 month warranty (bring-in)
VESA	100 x 100 mm
In-Stock system	Item. 1009571/ 1009580

SILENT

TERRA PC-NETTOP 3030

Fanless cooling

Extremely quiet and with low power consumption. The fanless TERRA PC-NETTOP in a compact Space-saving mini format with only 1.3 liters Volume is a full PC with fast SSD Storage medium and two serial interfaces.

Applications: Digital Signage, Point of Sales (POS), Point of Interest (POI), Office and Office applications, Pharmacies, Doctors, Hotels, Schools, POS systems.

Optionally available: VESA Mounting Kit for Attachment behind a display or with a wall or table Mount.

Extensive interfaces

FEATURES	TERRA PC-NETTOP 3030
Processor	Intel® Celeron J3355 (Dual-Core, 2.0 GHz)
Operating system	Windows 10 Pro, Unsupported OS by WAG: Linux
Motherboard	Proprietary
Memory	up to 8 GB SO-DIMM DDR3
Storage Medium	1x 2.5" , 1x M.2 Slot (2280)
Optical drive	Optional USB extern
Cardreader	Integrated, supports SD / SDHC / SDXC / MMC
Graphic	Intel® HD Graphics 500 integrated. HDMI max. 1920x1200 (60 Hz), Display port max. 3840x2160 @ (60 Hz)
Interfaces	Front: 2x USB 3.1 Gen. 1, Mic-in, line-out, card reader. Rear: 4x USB 2.0, 1x LAN RJ45, HDMI, DP, 2x COM, 1x PS / 2, DC-in
Characteristics	Fanless, supports digital dual monitoring
OTHER	
Service	24 month warranty (bring-in)
Optional	Mouse keyboard
VESA	Optional
In-Stock system	Item. 1009611

USB 3.1
USB 2.0
SD Card Slot
PS2
LAN port
Power
Dispaly Port
COM port
HDMI
speaker
microphone
DC in

MARATHON

TERRA MARATHON TECHNOLOGY

In different Case types

IT in continuous use

In a marathon you typically think about a long-distance or long-distance run with high requirements for the participants. This is also transferable to today's IT systems.

Regular hardware components such as motherboards, hard drives and power supplies for the usual office and ERP use are designed for a regular operation of about 60 hours per week and thus not suitable for 24/7 continuous operation.

Fields of application such as petrol stations, hotels, machine control or even digital signage, due to the often continuous periods of use, have an increased demand.

NON-STOP 24/7 More and more IT hardware is needed for Continuous use and this is precisely what we have defined for the TERRA Business PCs of the Marathon technology platform.

The TERRA PCs with marathon technology are equipped with special hardware components specially designed for continuous operation. Characteristic are 24/7-capable industrial mainboards "Made in Germany", with long-term availability and image stability * as well as special power supplies and storage media.

Special hardware for special requirements

Do not settle with 24/7 standard requirements Special requirements also require special hardware. The Components from the TERRA marathon technology platform help to minimize expensive downtime and also offer a high level of investment protection.

FEATURES	TERRA PC-BUSINESS Silent MARATHON
Processor	Intel® Celeron/ Intel® Pentium/ Intel® Core i3/ i5/ i7, Intel® Xeon
Operating system:	Windows 7 Professional, Windows 10 Pro
Motherboard format	Micro-ATX/ Full size-ATX/ Proprietary (PC-MINI)
Memory:	max. 64 GB DDR4 / max. 32 GB (MiniPC)
Storage Medium:	2x 3.5" + 1x 2.5" SSD or 3x 2.5" SSD / 1x 2.5" SSD + 1x M.2 SSD (PC-Mini/ Nettop)
Optical drive:	5.25" Format (only Midi-Tower + 19" Rack)
Cardreader:	3.5 "Format / Integrated (PC Mini / Nettop)
Graphics:	Integrated Intel® HD graphics
Front Interfaces:	2x USB in Front, Mic-in, Line-Out

OTHER	
Standard	36-month warranty (Bring-in)
In-Stock system	item.1009567 (Midi-Tower); Item. 1009545, 1009605 (PC-Mini), 1009611 (Nettop)
Via BTO-Production	tem. 1000960 (19 "Rack variant)

* Does not apply to all models.

NEU

TERRA POWER PLATTFORM

If you just need more power:

There are situations where you just need more power. To help computing-intensive Processes run smoothly, the TERRA PC Business 8000 Platform Components, are designed specifically for the needs of power users. Performance that is there when you need it. IT should support your processes and not slow you down due to a lack of performance.

Platform Socket 2066 - up to 18 CPU cores.
Liquid cooled. Supports up to 8x Displays simultaneously *

Work on a TERRA PC with Intel® Core ™ i9 processor and Intel® Optane ™ 900P SSD for the best possible results.

The Intel® Optane ™ technology sets new standards for high-performance TERRA desktops and workstations, giving even more scope for professional users, creatives and enthusiasts.

* Depending on the selected graphics solution.
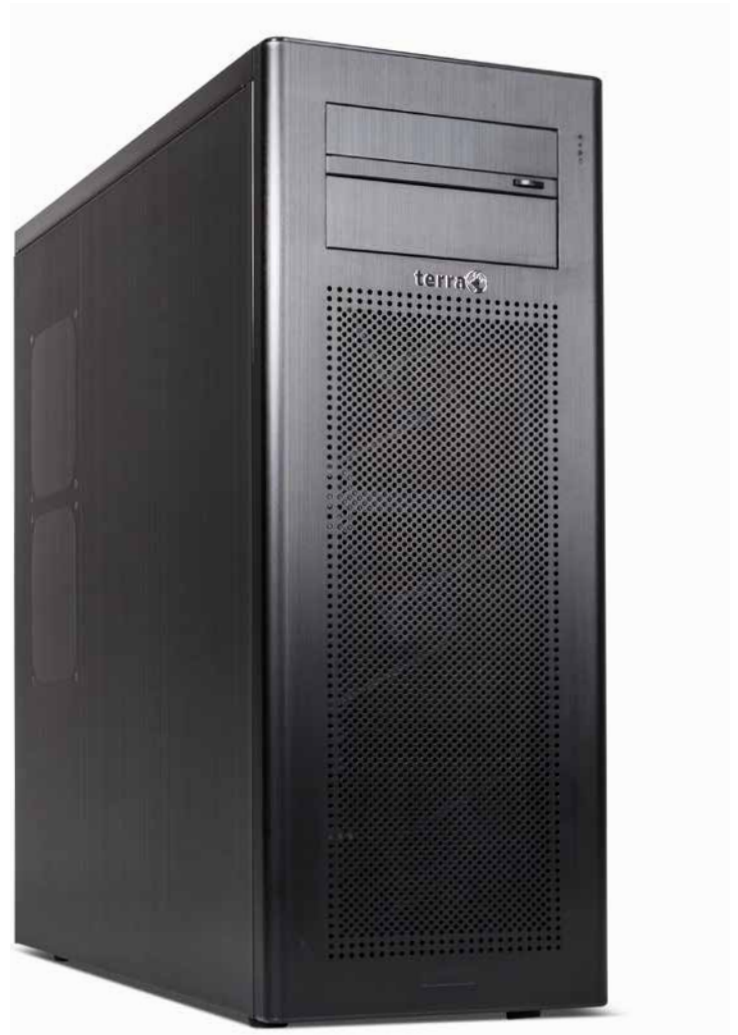
FEATURES	PC-Business 8000
Processor	Intel® Core™ i9-7900X X-series Processor (13.75M Cache, up to 4.30 GHz,10-Core)
Operating system:	Windows 10 Pro
Motherboard	ATX
Memory:	16 GB DDR4 / max. 128 GB
Storage Medium:	1 x 280 GB Intel® Optane SSD + 1x 2 TB
Optical drive	DVD ± RW Burner
Cardreader:	Optional
Graphic:	NVIDIA Quadro P600 (max. 4x Displays)
Front Interfaces:	2x USB 3.1 Gen1 Typ A, Mic-in, Line-Out
OTHER	
Standard	36-month warranty (Bring-in)
In-Stock system	Item No. 1009617

What makes a WORKSTATION to a WORKSTATION?

The difference between one PC and a Workstation.

A PC and WORKSTATION are quite similar in shape and some technical values. The differences are in the detail!

A PC is based on the components developed and adapted for the user appropriate features, quality and price / performance ratio. The usual useful life of an ordinary PC is 60 hours a week.

WORKSTATIONS are designed according to requirements and manufactured accordingly. Through a targeted selection of very high-quality components specially designed for the areas, the user receives an optimized system tailored to his needs. The lifecycle can be significantly higher than the normal values. See also page 20, "TERRA marathon technology".

Business PCs usually have an Office package, an ERP software and possibly a variety of multimedia files in use. It's different with a WORKSTATION. It can be used to construct, design, render, edit images, cut films and perform very computer-intensive Processes .

Since there are specific software and hardware for these tasks, The processor and graphics card should be selected specifically.
In addition, the system must be optimized with regard to the internal transmission paths between main memory, graphics memory and hard disk memory by means of an appropriate selection of powerful components.

We recommend professional graphics cards, e.g. NVIDIA Quadro from PNY or AMD FirePro.
With the use of these high-quality cards, make sure that you talk about the problem and not about the hardware in the case of support from your software manufacturer!
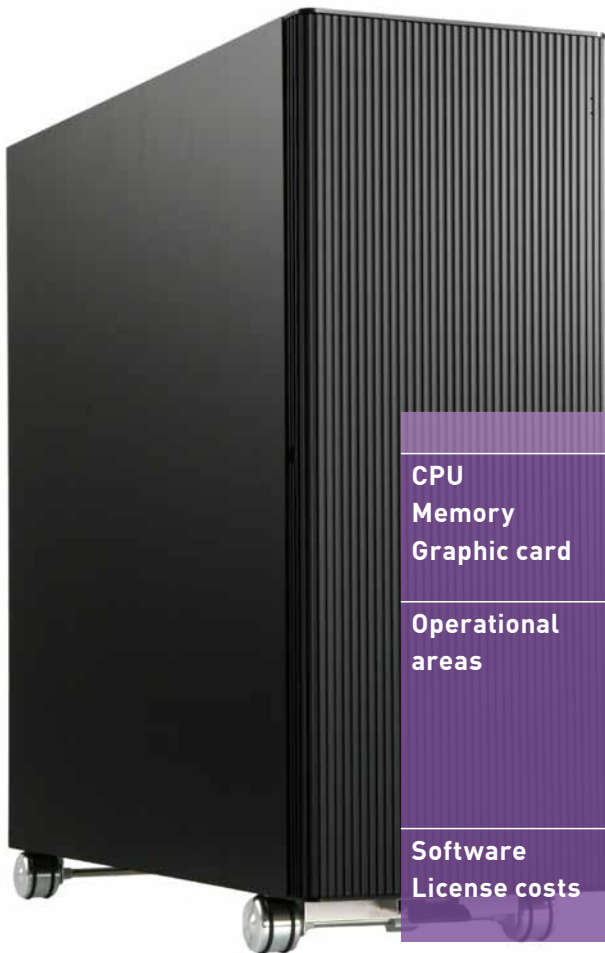
Fast amortization
Investing in a state-of-the-art WORKSTATION that has been optimized for the user / application will pay for itself as a result of the higher work speed and associated costs and increased efficiency.

High speed through SSDs
To speed up the systems, we recommend using high-quality SSDs from DataCenter or Enterprise product lines. Stability and reliability are particularly important in the WORKSTATION segment. Downtime is always costly.

Pierre Pomorin
Product manager WORKSTATION

	WORKSTATION	**PC**
CPU **Memory** **Graphic card**	High clocked many cores High (> 8 GB) Certified	Normal to fast 4-8 GB, integrated graphics usually sufficient
Operational areas	• Construction • Design • Professional image editing • Film production	• Office - ERP • Multimedia data
Software **License costs**	z.B. Autodesk Automotive ca. 75.000,- € Einzelplatz- lizenz	Office about 500, - € ERP about 1.500, - €

TERRA WORKSTATIONS - professional and fast

Specially tailored to your individual requirements.

Case Study Company Construction & Design
To clarify the differences between the TERRA WORKSTATIONS, various solutions are explained using three application examples.
The fictitious company develops parts for the Automotive engineering with software from Autodesk (Autocad, Inventor, Maya, etc.).
The IT department has to obtain WORKSTATIONS for the construction department, which meet the relevant requirements, are not oversized and fit into the budget plan.

In general, the faster a designer can accomplish a task assigned with the help of his or her IT, the faster the higher initial outlay on a workstation will pay off in comparison to a normal PC. [!] Gaming PCs are not recommended. The software solution vendors generally disapprove of support if certified graphics cards are not used.

1 **Construction of small parts**
Small parts are designed in the 2D and 3D area. In addition, standard office Applications used.

Solution: TERRA Workstation 6100.
The WORKSTATION, distinguished by its small and Compact design is currently equipped with a NVIDIA Quadro P600 graphics. Suitable for the use of most software apps in the entry level area.
This platform generally offers a high-performance entry-level solution.

Our tip:

PNY configurator for NVIDIA Quadro graphics cards.
http://pny.quadro-selector.com

AMD FirePro ™ Workstation Graphics Cards - Solutions for CAD and engineering
https://www.amd.com/de-de/solutions/workstations/cad

1

2 3D construction non visible Components.

Invisible 3D components are developed, designed and constructed. Invisible accessories are, for example, the suspension of a front spoiler. Elaborate rendering tasks are not performed on the workstation.

Solution: TERRA WORKSTATION 75xx series.

For more complex designs, high clock rates of the processor are more important than the number of cores, because the computing processes are serial and not parallel. In addition to the standard configuration, we also offer the system individually and precisely, via the ISO-certified TERRA built-to-order production process to manufacture to the respective requirements of the software used. [!] Besides the use of RAM memory with ECC, it is important to use certified graphics cards - either from the Nvidia Quadro or the AMD FirePro ™ series, certified for the performance segment.

3 Construction and rendering of 3D components.

On the workstation, visible parts of a car are developed and designed in 3D. Rendering processes must be performed to gain an impression of the finished product.

Solution: TERRA WORKSTATION 8600 MULTI-GPU.

Especially rendering requires in addition to the serial Processing (high clock rate) additionally the parallel data processing (many CPU cores). The TERRA WORKSTATION 8600MULTI GPU is the first choice here as it combines both high clock rates and many cores in one machine as a dual-processor system.

In addition, a closer look must be made to the software product used. Depending on the application used, the actual rendering takes place via the CPU or the GPU. If the latter is the case, it is recommended that NVIDIA Quadro or AMD FirePro™ family of graphics cards be certified for the high-end segment, for support of software vendors.

WORKSTATION and combinable Software

TERRA WORKSTATION positioning in relation to your requirements

	WORKSTATION 6x00 Entry	WORKSTATION 7x00 Midrange	WORKSTATION MULTI-GPU High end	Software examples
Financial mathematics	+	++	+++	Aaon Benfield Pathwise
Numerical flow simulation, structural mechanics and analytics	+	+	+++	Prometech Particleworks Matlab Autodesk Moldflow
Data mining, analytics and databases	+	++	+++	Mathlab
Defense and Intelligence	+	+	+++	MrGeo Motion DSP Ikena ISR
Electronic Design	+	+	+++	Agilent Technologies ADS
Bildgebung und Computer Vision	+	++	+++	Axxon Intellect
Medical	+	++	+++	Acceleware AxRecon Digisens
Molecular dynamics	+	++	+++	LAMPPS, HOOMD
Physics / Chemistry / Bioinformatics / Science	+	+	+++	Chrome Ugene
Visualization and docking	+	+	+++	VMD Amira 5
Weather and climate forecast	+	+	+++	WRF, Geos-5, Meteo Earth
CAD	+	++	+++	Autocad, Catia, Bunkspeed ARCHICAD
Video	−	+	+++	Autodesk 3ds Max, Maxon Cinema 4D, Adobe CS
DTP	+	++	+++	Adobe CS, Quark Express
Image editing	++	+++	+++	Adobe Creative Suite

+++ **Ideally suited**   ++ **Well suited**   + **Suitable**   − **Not suitable**

Configuration examples TERRA Workstations

Small format housing

Height: 38 cm

width: 9,5 cm   Depth: 34,1

The **TERRA WORKSTATION 6100** is a space-saving CAD workstation with Windows 10 Pro in Small Form Factor (SFF) format, usable horizontally and vertically.
With the for professional use PNY Quadro® P600 graphics solution, certified for leading CAD and DCC applications, it delivers maximum performance and productivity with low power consumption.

Perfect for the most complex tasks and applications such as CATIA, 3D simulations / animations, raytracing, video and CAD applications and graphic design is the **TERRA WORKSTATION 7800**.

Speed up your workflow. NVIDIA® Quadro® professional solutions are a true technological innovation delivering up to 5x more performance in a wide variety of design, animation and video applications.

FEATURES	TERRA Workstation 6100
Processor	Intel® Xeon® Processor E3-1220v6 / 3.0 GHz
Operating system	Windows 10 Pro for Workstations
Motherboard	Micro-ATX
Memory	8 GB DDR4 / max. 64 GB
Storage Medium	1x 1 TB SSHD Hybrid Drive
Optical drive	DVD±RW Burner
Cardreader	Optional
Graphic	NVIDIA Quadro P600
Interfaces in front	2x USB 3.1 Gen1 Typ A, Mic-in, Line-Out
Application areas	AutoCAD, Inventor, Revit
OTHER	
Service	36-month warranty (Bring-in)
In-Stock system	Item no. 1000966

FEATURES	TERRA Workstation 7800
Processor	Intel® Xeon® Processor E5-2623 v4 (10M Cache, 2.60 GHz)
Operating system	Windows 10 Pro for Workstations
Motherboard	ATX
Memory	32 GB DDR4 / max. 256 GB
Storage Medium	1x 240 GB SSD + 1x 1 TB SSHD
Optical drive	DVD±RW Burner
Cardreader	Optional
Graphic	NVIDIA Quadro P4000
Interfaces in front	2x USB 3.1 Gen1 Typ A, 2x USB 2.0 Mic-in, Line-Out
Application areas	Solidworks, NX, Creo, Catia
OTHER	
Service	36-month warranty (Bring-in)
In-Stock system	Item no. 1000952

What makes a TERRA PC Home/Gamer actually a home PC?

Of course, the home and gamer PC is defined by its intended use. Our TERRA PC-HOME and PC-GAMER cover the entire range of uses for private use. Whether surfing the Internet, editing holiday photos or sophisticated gaming. For every application there is the perfect configuration.

A difference to business PCs is the installed operating system. As described in the Business PCs, all standard configurations for private Field of application exclusively delivered with Windows 10 Home.
The second visible difference is at the higher-order computers used Casing. Our TERRA PC-HOME and PC GAMER is usually produced in our design housing, the TERRA PC 605 with a high-gloss finish.
Expert and advanced private end users are loking for more power,especially in the graphics area.

Housing in chic glossy look even the most demanding users are happy.

Therefore, the higher-value systems, in particular the TERRA PC-GAMER systems, with powerful Powerful graphics cards are equipped to play PC Games in perfect 1080p HD resolution and high frame rates.

Product overview PC-HOME and PC-GAMER

Windows 10 Pro

intel

	TERRA MINI Tower	**TERRA MIDI Tower**	**TERRA BIG Tower**	**TERRA MIDI Tower**
Model	PC 311	PC 607	A75X	PC 605
Design	Micro-ATX Minitower	ATX Miditower	ATX Big Tower	ATX Miditower
Motherboard	Micro-ATX	Micro-ATX/ ATX	ATX/ E-ATX/ CEB	Micro-ATX
Colour	Black / Silver or White / Black	Black / Silver	Black	Piano finish black
Dimensions (WxHxD)	180 x 375 x 390 mm	181 x 436 x 430 mm	220 x 585 x 590 mm	180 x 440 x 420 mm
5,25" extern	2	2	2	1
3,5" extern	1	2	0	2
3,5" intern	1	2	9 (12)	2
2,5" intern	1	1	3	1
Toolless opening	Optional	Yes	Yes	Yes
Tool-free assembly	Partially	Partially	Partially	Partially
Lockable	Optional	Optional with lock	No	Optional
Kensington Lock	Yes	Optional	No	Optional
Case-Open-Switch	No	Optional	No	Optional
Power adapter	ATX	ATX	ATX	ATX
TFX 300 Watt / 80	–	–	-	–
Flex ATX 250W	–	–	-	–
ATX 350-1200	Yes	Yes	Yes	Yes
ATX redundant	–	–	No	–
USB in Front	2 x 3.1 Gen.1 Typ A	2 x 3.1 Gen.1 Typ A	2x 3.1 Gen.1 Typ A, 2x 2.0	2 x 2.0, 2x 3.1 Gen.1 Typ A
Audio in Front	Yes	Yes	Yes	Yes
Chassis fan	Optional 1x 92 x 92 or 80 x 80 front, 1x 80 x 80 mm rear	Optional 2x 80 x 80 front, 1x 80 x 80 mm rear	3x 140 mm, 1x 120 mm	Optional 2x 80 x 80 front, 1x 80 x 80 mm rear
Features	One side removable	Individually removable side panels	Brushed aluminum	Individually removable side panels

GREEN-LINE

TERRA ALL-IN-ONE PC 2211

Also available in white!

21.5 ZOLL

+ ELEGANT DE-

+ VERSATILE APPLICATION

+ POWERFUL

intel CORE i3 inside

intel CORE i5 inside

intel CORE i7 inside

FEATURES — TERRA ALL-IN-ONE PC 2211

FEATURES	TERRA ALL-IN-ONE PC 2211
Processor	Intel® Core i3 / Intel® Core i5 / Intel® Core i7
Operating system	Windows 10 Pro
Display size	54.6 cm (21.5")
Resolution	1920 x 1080 (Full HD)
Memory	Max. 32 GB RAM
Hard drive	2.5" (SSD/ SSHD/ HDD)
Optical drive	Slim DVD±RW/±R
Graphic	Intel® Graphics
Interfaces	4x USB 3.1 Gen.1, 2x USB 2.0, card reader, HDMI, Microphone-In, Line-Out / Head-

MISCELLANE-

Standard	up to 60 months (pick-up service)
Optional	Mouse keyboard
VESA	100 x 100 mm

TOUCH 10 POINT

RESOLUTION Full HD

TERRA ALL-IN-ONE PCs - elegant and powerful. All-in-one devices have in the last few years, achieved a significantly higher status. Especially when space is tight or if Stylish, powerful devices are required, the all-in-one PC often the first choice.

Optimized for Windows 10, the 10-point touch allows operation of the system, like you are used to from smartphones and tablet computers. Of course, the devices can also be used with a conventional keyboard and mouse.

GREEN-LINE

TERRA ALL-IN-ONE PC 2415

23.8 ZOLL

With ergonomic Height adjustment and convenient pivot function
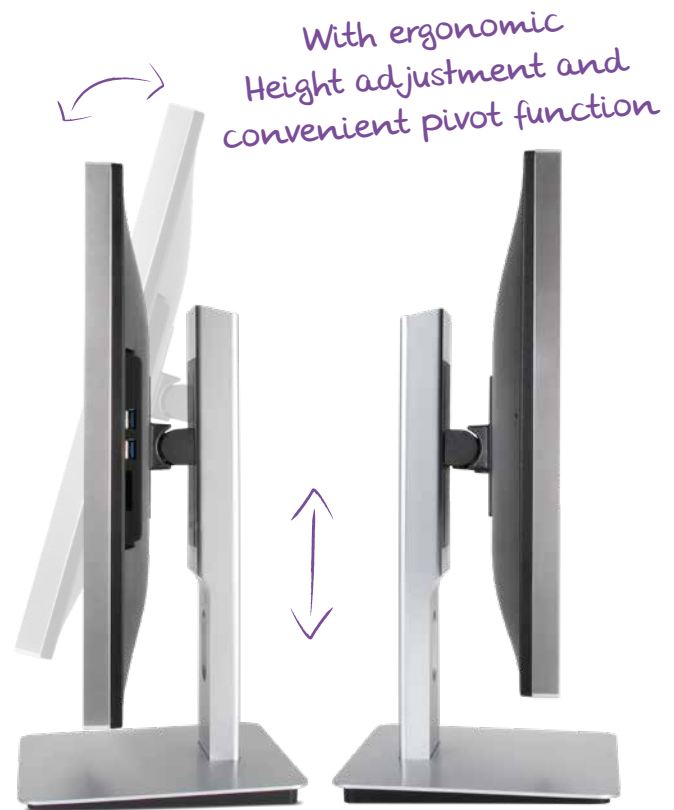
LIGHT LED

CAM 1.3 MP

In combination with webcams are all-in-one devices ideal for Internet telephony and video conferencing.

TERRA ALL-IN-ONE PCs with touch technology are real all-round talents - whether in the office, in reception areas, in hotel lobbies, fixed to a wall - the application possibilities are diverse.
You do not have to do without performance. Powerful Intel processor technology and fast SSD or SSHD drives are now standard on TERRA devices.

FEATURES	TERRA ALL-IN-ONE PC 2415 HA
Processor	Intel® Core i3 / Intel® Core i5 / Intel® Core
Operating system	Windows 10 Pro
Display size	61 cm (24")
Resolution	1920 x 1080 (Full HD)
Memory	Max. 32 GB DDR4
Hard drive	2.5" (SSD/ SSHD/ HDD), 1x M.2 (2280)
Optical drive	Optional extern USB
Graphic	Intel® HD Graphics
Interfaces	Right: Cardreader, 2x USB 3.1 Gen.1 Type A, Bottom: Microphone, Headphone, 4x USB 3.1 Gen.1 Type A, HDMI, Display port, RJ-45, DC-in
MISCELLANE-	
Standard	up to 60 months (pick-up service)
Optional	Mouse keyboard
VESA	100 x 100 mm

NEW

GREEN-LINE

TERRA ALL-IN-ONE PCs 2405HA

Recommended two-screen solution with optically almost identical TERRA LCD 2462W PV

23.8 INCH

AIO 2405HA & LCD 2462 W PV

intel CORE i3 inside

intel CORE i5 inside

intel CORE i7 inside

RESOLUTION Full HD

LIGHT LED

The TERRA AIO-PCs of the series 2405HA and 2705HA shine with powerful Intel Core processors. They are elegant, performant and quiet and equipped with numerous possibilities of ergonomic adjustment.

The use of these elegant design AIO PCs Helps with outstanding performance Optimize your workspace with clear cable management.

The result: your work desk is transformed into a tidy and clear workplace.

Especially in workplaces that are visible to the customer, such as in medical practices and reception areas, this is an advantage and creates trust.

The model 2405 HA combines a modern design with almost borderless display with the latest technologies in one device with which You would like to work. Good looks included.

And if you need even more monitor space: The AIO 2405 HA can be well complemented with the optically almost identical TERRA LCD / LED display 2462W PV!

NEW **GREEN-LINE**

& 2705HA

Ergonomically customizable A-I-O in an exceptional 27" format

27 INCH

Multifunction stand: 130 mm height adjustment, 280 ° swivel, tilt and pivot function

With its generous 27 "diagonal screen, powerful components and height adjustment, the TERRA AIO 2705 HA also meets the needs of demanding users.

And our ALL-IN-ONE systems do not have to hide in terms of price: the combination of a high-performance office PC with a high-quality large-format display is often not favorable. Our ALL-IN-ONES are a cheaper alternative, without sacrificing ergonomics or performance!

Height-adjustable all-in-one PCs in a stylish design.

FEATURES	TERRA ALL-IN-ONE PC 2405/2705 HA
Processor	Intel® Core i3 / Intel® Core i5 / Intel® Core i7
Operating system	Windows 10
Display size	60.5 cm (23..5") / 68.5 cm (27")
Resolution	1920 x 1080 (Full HD)
Memory	Max. 32 GB RAM
Hard drive	2.5" (SSD/ SSHD/ HDD) + 1x M.2 Slot
Optical drive	Optional extern USB
Graphic	Intel® Graphics
Interfaces	6x USB 3.1 Gen.1 type A, card reader, HDMI, Display Port, Microphone In, Line Out / Headphones
Network	LAN RJ-45, WiFi, Bluetooth

OTHER	
Standard	Service up to 60 months (Pick-up Service)
Height adjustment	130 mm, pivot function, tilt function
Optional	Mouse keyboard
VESA	100 x 100 mm

Windows 10

Discover new opportunities for Work and play with Windows10.

WINDOWS 10: OUTSTANDING FEATURES

Optimal platform for mobile users

Easy handling
- Easy migration for Windows 7 users
- Consistent operator guidance across device boundaries
- Adjusts to the device / form factor

Devices and Cloud grow together
- SMEs can use SaaS apps
- Working with Office Online
- Sync with Outlook
- Full OneDrive integration
- Synchronization of user settings.

Low-cost and innovative devices

Maximum mobility and flexibility as well as the largest selection of devices and form factors
- Slim, lightweight and top designs, so all SMEs find the optimal equipment
- Fast startup and superior response times
- Designed for long battery life

Easy setup and management

Unpack, switch on and get started
- Configuration with a single file
- Multiple configuration options
- Simple workflow

Intuitive administration
- Group policies facilitate administration
- Mobile device management (MDM)
- Windows Store for Business
- Azure ActiveDirectory support

Why Windows 10:

? *Windows 7 (or 8) is running fine. Why should I switch to Windows 10?*

! Windows 7 (or 8) is fine, but Windows 10 is much better. The current operating system combines the best features of Windows 7 and Windows 8 with new, innovative features and also provides more security. Some of the outstanding features include: The proven Windows desktop and the familiar Start menu have been improved so you can easily get more done. Windows 7 Support ends by January 2020.

? *Why should we buy new devices when Windows 10 runs on our existing devices?*

! Buying new devices has many advantages over upgrading your existing devices. If your device is more than four years old, performance and equipment may no longer meet current standards. In addition, current equipment needs special support Windows 10 functions that do not support old equipment.

? *We are planning the purchase of iPads. Why should we look for Windows devices ?*

! iPads are equipped with a mobile operating system that eliminates the need for business applications or desktop software. On Windows 10, on the other hand, you can use programs developed for Windows 7 and even for Windows XP.

In order to manage iPads used in the company, you usually have to work with different third-party solutions, which does not necessarily simplify the administration and causes additional costs. Windows-equipped devices, on the other hand, can be managed using the tools you may already be using. Microsoft has years of experience in enterprise device management, giving you a complete solution that includes hardware, software, management tools, security features, and more.

WINDOWS 10 ACTIVATION OPTIONS

What do your customers need to look out for when purchasing a new, Windows 10-equipped PC?
With the release of Windows 10, Microsoft has re-designed the activation process, which is imperative for the continued use of the new operating system. This change concerns systems that come with a pre-installed Edition of Windows 10.

Certificate of Authenticity and Genuine Microsoft Label
Any system shipped with a preinstalled version of Windows 10 will require either the Certificate of Authenticity (COA) or the new Genuine Microsoft (Genuine Microsoft Logo, GML) label. Both COA and GML signal to the customer that the system has preinstalled licensed original Microsoft software. The difference: The product key is printed on the COA, while the pre-installed Windows 10 Edition is shown on the GML. Another new feature is that the GML does not necessarily have to be glued to the housing of the system. The sticker can, for example, with notebooks and tablets, also be mounted under the battery or on the power adapter.

Examples of Original Mi-crosoft Labels (Genuine Microsoft Logos, GML)

Example of a Certificate of Authenticity (COA)

Activation of Windows 10
TERRA PCs with Windows OEM operating system installed are already preactivated. You do not have to do anything here. Activation does not require the entry of a product key.
The situation is different in the activation of e.g. System Builder Merchandise: After the first launch of a system with a certificate of authenticity, users must enter the product key printed on the COA and activate online or by phone.

Reinstalling Windows 10
Customers using a PC with preinstalled Windows 10, you typically do not receive a recovery disk to per-form a clean installation. Generally it is possible that restoration over the system this can be done directly. For Windows 10 systems you still get an image to restore the system via the web portal, area Service -> Serial Number Search -> Driver Database (see also page 39).
Windows 10 PCs with GML attached will not require a product key when reinstalling with the associated image. If you have purchased a Windows 10 PC with a COA affixed to it, a product key may need to be entered during reinstallation.

For issues with activating or reinstalling Windows 10
Within the warranty, customers who have purchased a pre-installed Windows 10 PC will contact the PC manufacturer's hotline for activation or reins-tallation issues. Upon expiration of the warranty, customers experiencing activation or reinstalla-tion issues will contact Microsoft. If Windows 10 was purchased separately from the hardware, the customer must contact the address printed on the software package or its trading partner.

Additional Information:
Microsoft has provided a process for getting a product key for a replaced motherboard which is out of warranty. For a fee, a key is provided at the following telephone number: +49 (0) 180 6 67 22 55.

TERRA Built-to-Order - Customize-to-order production (BTO - CTO)

We produce exactly what you need.

We have manufactured high-quality, customized PCs to customer requirements for more than 30 years. The TERRA BTO / CTO production process offers you a flexible and individual adaptation of almost all TERRA standard systems to your wishes and requirements.

TERRA systems are available with and without optical drives, with special built-in cards,the necessary processors, main memory, HDDs or SSDs as well as graphics cards or special motherboards. To optimize your processes, we also offer numerous options to configure your system, right from the factory to prepare it so that you have little effort when starting your system.
Save time and money by using our TERRA BTO / CTO options.

**Quality is our strength.
Made in Germany according to
ISO 9001 standards.**

HDD / SSD Master production:
Reduce your own installation effort with the TERRA BTO / CTO master production. Especially for systems that can not be automated by you, this option is useful for saving manual updates. When providing a master image, TERRA BTO / CTO Master Production gives you image-identical systems directly from the factory.

* Only available on request.
** Serial production: at least 10 identical systems

(By stocking system critical parts,
Exclusively for the respective procedure, we can also offer revision-identical * devices over a longer period of time.)

DMI settings / Password:

In a TERRA series ** BTO / CTO production, administrative reworking can be avoided if the necessary settings in the BIOS / UEFI are made directly in production.

Possible DMI entries would be e.g. Model name, manufacturer or serial number of the system. Please contact us if you have special BIOS / UEFI settings, as well as a single password for the BIOS / UEFI, if this is required.

MAC

MAC address:
As an option on a TERRA Series ** BTO manufacturing we offer, the MAC Address of the network adapter to read out and, where necessary, to place it as a sticker on the system. If required also with PC serial number in plain text and barcode and /

or with individual inventory number. Also available as an Excel spreadsheet with MAC addresses including assignment to the serial numbers.

HDD / SSD BOOT partitioning:
Get your system directly with the BOOT partitioning of your HDD or SSD that you prefer.

We offer numerous options, such as a 20-80% BOOT partitioning or fixed-gigabyte partitioning, e.g. a 150 GB BOOT partition.

RAID

RAID creation:
With at least two mass storage media (HDD / SSD), you can receive the system directly with the installed RAID level directly via TERRA BTO production. By default, we'll create one RAID set per system: RAID 0 (striping), RAID 1 (mirroring), or a full RAID 5, 6, or 10. (Required number of HDD / SSDs and corresponding controller required).

TERRA Built-to-Order – Options

Systems tailored to your needs.

Special configuration:

For very specific configurations, it may be crucial for the end user to ensure that built-in add-in cards and drives are always mounted in the same position. This can also affect the internal wiring of the TERRA systems to be produced. With the individual TERRA BTO / CTO production process we offer the possibility to determine precisely these parameters. The production is then always in the same form according to your specifications.

Co-Labeling:

For the production of TERRA BTO / CTO systems we offer you to place your own sticker on the TERRA systems. Examples include own brand or company labels and labels with service information (Phone number, email, www). These can be provided by you or obtained as a service individually from us, and stored to the systems to be supplied.

Standard Software:

As part of the possible installation variants, you will receive all current Windows operating systems. These are on Windows 10 in German, English, French, Dutch, Spanish, directly available for installation.

Other languages are via appropriate "Language Packs" available for free to install. As with our TERRA standard Systems we install a Microsoft Office Trial on the systems. So you can purchase the Microsoft Office product, simply Activate the PKC or ESD product. if you Do not want this pre-installation of Office, this can be considered in a BTO production.

Express Manufacturing Service

When it has to be particularly fast: Combine the TERRA BTO production process with the TERRA Express manufacturing service. For a small surcharge, we will produce your desired PC within 24 hours * for shipping. (Additional service: shipping by special service / express courier)

*assuming availability of goods.

Drivers, manuals and system configuration

On our website for all TERRA Systems you the Option via the serial number of the device, the current Drivers and manuals for the respective system, as well for those installed in the system, You can also get access to a detailed parts list of the installed components and view the warranty period.

System information / Drivers

By entering the device serial number of a TERRA system, you get an overview of available drivers, manuals and utilities for the system or for the components used.

The overview refers to the corresponding components, version levels, language and type of operating system and offers a direct download option.

Serial number search and System

Via the function "Serial number search and system" - accessible via our homepage - you receive a complete list of all installed components of the system when entering the device serial number. This list also contains the articles for those not maintained under the item "System information / drivers", drivers, manuals and Ultilitys. This feature also offers the option to export the data in a short and an extended version as a PDF.

Direct Link: **www.wortmann.de/treiber**

Direct Link: **www.wortmann.de/systemschein**

Noise protection at your workplace with TERRA SILENT products

Noise (unwanted audible sound) not only reduces the quality of life but can also affect people's health. To ensure the safety and health of persons at risk from noise, Legal requirements have been developed in the European Union and in Germany. In the annex of the German workplace regulations and also in the accident prevention regulation of the professional association VBG-B3 (noise) it is pointed out to keep the noise levels in workplaces as low as possible according to the kind of the enterprise. For this reason, employers very often buy technical work equipment. For this purpose, comparable products from different manufacturers are assessed for their acoustic emission behavior in the case of new acquisitions. However, a comparison of the acoustic information is only possible if the manufacturer's information is based on the same measurement and presentation principles.

Sound pressure level LpAm in decibels (dB) according to ISO 9296)

This measurement is intended to simulate the actual noise exposure of the user. Occupational health and safety officers in companies use this information to determine the acoustic exposure of the company to assess employees in the workplace.

The legal requirements for sound pressure (in dB (A)) in occupational safety reflect the maximum permissible load limits on the human ear.

The sound pressure is in contrast to the sound power basically ambient and location dependent. Since IT products can contribute to the acoustic stress in the workplace, the indication of the sound pressure in the typical user distance of the product is also of interest.

SILENT

TERRA SILENT:
Systems with SILENT marking are quiet.
Intelligent fan systems and optionally available special insulation materials allow a very good noise reduction.
Acoustic emission (according to ISO 9296) Sound pressure (LpAm) at 0.5 m distance and height 1.2 m Idle mode: **23 to <28 dB (A)**

SILENT PLUS

TERRA SILENT PLUS:
Systems with SILENT + marking are particularly quiet. Intelligent fan systems and optionally available special insulation materials offer maximum noise reduction. Acoustic emission (according to ISO 9296) Sound pressure (LpAm) at 0.5 m distance and height 1.2 m Idle mode: **20 to <23 dB (A)**

Certificates and awards

WORTMANN AG relies on components from well-known manufacturers during production. It produces according to DIN ISO EN9001, TÜV / GS, VDE and CE guidelines. In addition, the components required for the production of TERRA computer systems go through a rigorous validation process that checks not only quality and performance but also issues such as heat and noise.

Microsoft certification

To be prepared for the current Microsoft Windows generation, our standard systems are tested for the current specifications. After passing extensive hardware tests for Windows, our systems receive the "Windows 10" logo.

Blauer Engel (Blue Angel)

The first TERRA systems have been registered with RAL (Reichsanstalt für Lieferbedingungen) for the use of the well-known environmental certificate "Blauer Engel". Essentially, the aspects of energy efficiency and recyclability as well as ecological and health safety are examined here.

Medical PC-Systems

Suitable for use in the patient environment, these PCs meet the strict requirements of EMC according to DIN EN 60601-1-2. The power supply of these systems has been tested in accordance with the system standard DIN EN 60601-1-1, which among other things stipulates a leakage current of less than 0.5 mA. All PC systems continue to be individually tested in production in accordance with IEC 601-1. A maximum of security!

Energy Star

We offer PC systems, notebooks and LCDs that are Energy Star compliant. With TERRA PC systems, notebooks and LCDs you reduce the emission of greenhouse gases through lower power consumption and save additional energy costs.

TÜV/GS

TERRA systems are available with the GS certification of TÜV Rheinland. This ensures that the TERRA systems we produce meet the low-voltage guidelines and ergonomic requirements of TÜV Rheinland.

Service and financing - everythin

Financing solutions

Whether you need PCs, notebooks, monitors, servers or storage systems, our flexible financing solutions help you optimize the innovation cycles of your hardware and ensure you are always up to date with the latest technological developments. The costs for the installation and the software can also be incorporated in full or in part in the financing solution.

Le

Leasing
Despite the fast pace of innovation, our leasing models keep you up to date with the latest technology.

Mk

Hire purchase
If you prefer to finance your equipment rather than buy it, you can use our hire purchase to make large investments in your payments over the life of the investment.

M

Rental
Reliability, performance and availability of your IT systems have the highest priority. The technical service during the product cycle represents a potential financial risk. Our lease agreements with integrated service or maintenance agreements provide you with the security of the agreed service at a cost that can be scheduled within the service level agreed with you.

I

Individual financing
Every project is different. That's why every financing solution has to be individually designed. We develop your optimal solution together with you. With our financing models, you can save your liquidity even in cost-intensive large-scale projects.

Questions? Contact us.
We will be glad to help you!

g at a glance

Individual service for your PC systems – tailored to your needs.

Questions?
Contact us!

TERRA PC-Systeme

Standard: Depending on model 24 or 36 months warranty incl. On-site replacement service. Special models may differ.
Extended service Maximum 60 months for all PC models.

TERRA PICKUPSERVICE: Free pick up and New delivery, in case of defects for 12 months at a time.
Conditions: Bring-in service at least the same duration.

TERRA ON-SITE SERVICE: Bookable for 12 Months at a time, maximum 60 Months for all models.
Conditions: Guarantee at least equal duration. For all models except MPG systems. 24 hours Reaction time in the D / A / CH regions and in BeNeLux

Express production 24 hours: Production of BTO systems no later than 24 hours after receipt of order.

Tips and information: For projects and large volumes, we offer special conditions, several times a year, there are special promotions.

That's something you can rely on!
Service directly from the manufacturer and its partners. With us you speak with professionals who help you optimally and quickly without bureaucratic red tape.

Extended service
As a rule, all services for TERRA products can be expanded unbureaucratically to the respective maximum while the device still has an active guarantee. You only need to specify the serial number and the desired service product and receive your service extension within three working days.

* Since 2012 also valid in the Benelux countries.