BAREBONE XPC slim DS201J7

FANLESS SLIM PC WITH A COMET-LAKE-U PROCESSOR IN INDUSTRIAL DESIGN

The DS20U-series is a fanless slim PC with a robust 1.3-litre metal chassis and exceptional connectivity. It supports two digital video outputs for UHD/4K displays and one traditional D-Sub/VGA connector. The built-in Intel "Comet-Lake-U" processor provides ample performance for playback of 2160p/60 videos. Installation of components goes straight forward, as there is plenty of interior space for two memory modules, one 2.5" drive and an M.2-2280 SSD card. Optionally, an LTE module can be fitted in the 2,5" bay using the WWN03 accessory. Thanks to its passive cooling, the system is virtually maintenancefree and is approved for 24/7 nonstop operation. It is big on performance, yet extremely energy-efficient. The Shuttle XPC slim Barebone DS20U series is an ideal platform for professional applications such as digital signage, POS, Kiosk, Thin Client, Office PC and Multimedia.































FANI ESS

2v 32 GB SUPPORT

HDMI 2 0a

DISPLAY-**PORT 1.2**

NIV/Ma SSD SUPPORT

2.5" HDD/SSD SUPPORT

DUAL LAN (INTEL)

VESA MOUNT WLAN / LTE **OPTIONAL**

MAX REMOTE POWER OPT.

SUPPORT

SLIM DESIGN

■ Slim 1.3-litre metal chassis, black ■ Dimensions: 20 x 16.5 x 3.95 cm (LWH) ■ Including Stand and VESA mount (75/100 mm) ■ Supports 24/7 Nonstop Operation ■ Operating temperature: 0~40 °C (non-condensing)

OPERATING SYSTEM

- An operating system is not included
- Supports Windows 10/11 and Linux (64-bit)

PROCESSOR

■ Intel Core i7-10510U processor, 4/8 cores, 1,8~4.9 GHz, Gen. 10, codename "Comet Lake-U", max. 15W TDP ■ Fanless heatpipe cooling system

GRAPHICS

■ Integrated Intel UHD graphics, 4K support (features depend on processor) ■ Supports three independent displays

MEMORY SUPPORT

■ 2x 260-pin SO-DIMM slot ■ Supports DDR4-2666 ■ max. 2x 32 GB

STORAGE - SATA / M.2

■ 1x 2.5" bay for SATA hard disk or SSD ■ 1x M.2-2280M slot (supports PCIe x4 NVMe or SATA) ■ 1x M.2-2230E for optional WLAN

CONNECTORS

■ HDMI 2.0a ■ DisplayPort 1.2 ■ VGA ■ SD card reader ■ 2x audio (line out, mic) ■ 4x USB 3.2 Gen2 ■ 4x USB 2.0 ■ 1x internal USB 2.0 ■ 2x Intel Gigabit LAN (RJ45) ■ 1x COM port (1x RS232/422/485) ■ Connector for external power button ■ "Always on" Jumper ■ DC-input 12 V or 19 V

■ External 65W/19V power adapter (also supports 12 V power adapter)

OPTIONAL ACCESSORIES

■ WLAN Module (WLN-M / WLN-M1) ■ LTE-kit (WWN03) ■ Rackmount kit (PRMO1) ■ Cable for external power button (CXPO1) ■ DIN-Rail mounting kit (DIR01) ■ 2nd COM port RS232 (PCP11)



MODELS OF THE DS20U SERIES

Product	Processor	Cores / Threads	CPU Clock	L3 Cache	DDR4 Clock	USB 3.2	UPC Code
DS20U	Intel Celeron 5205U	2/2	1.9 GHz	2 MB	2400 MHz	Gen 1 (5 Gbps)	887993003900
DS20U3	Intel Core i3-10110U	2/4	2.1~4.1 GHz	4 MB	2666 MHz	Gen 2 (10 Gbps)	887993003917
DS20U5	Intel Core i5-10210U	4/8	1.6~4.2 GHz	6 MB	2666 MHz	Gen 2 (10 Gbps)	887993003924
DS20U7	Intel Core i7-10510U	4/8	1.8~4.8 GHz	8 MB	2666 MHz	Gen 2 (10 Gbps)	887993003931

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PRODUCT FEATURES



Robust, stylish and Extremely

You should have held it in your own hands to experience how small it actually is. Barely 1.3 litre in volume, its rigid steel chassis design meets the high standards towards quality and stability that are essential for professional applications like digital signage. Despite its diminutive size, the processing power inside the DS20U7 is sufficient to meet the needs of the most demanding multimedia and computational workloads. Other than rough environments, its sleek and stylish look also blends seamlessly in both home and office.



One M.2-Slot for SSD cards The M.2-2280 slot supports one M.2 SSD storage card with NVMe PCIe or SATA interface. Type 2280 means, it supports the usual M.2 cards with a width of 22 mm and a length of 80 mm, but also 2242 and 2260 stand-

ard cards are supported.

Dual Intel Gigabit LAN Network The Shuttle XPC slim Barebone DS20U7 supports Dual Gigabit LAN with Intel network adapters, which are popular for their excellent performance and driver compatibility and are the preferred choice for profes-



Ease of installation thanks to bay covers

The Shuttle XPC slim Barebone DS20U7 features two practical bay covers at the bottom of the chassis which make the installation or upgrade of hardware components a breeze. No cable is required and no cooling system needs to be installed.



VESA mount

sional environments.

The supplied 75/100mm VESA mount allows for installation on to walls or monitors which is particularly interesting for the industry segment, company buildings and public institutions. Other than this, the chassis bears numerous threaded holes (M3) enabling it to be fitted almost anywhere.



No fan noise and approved for 24/7 operation

A large heatsink is concealed behind a plastic cover and cools down the processor in a passive way without any fan. Using an SSD drive instead of a hard disk makes the system virtually noiseless and hence perfectly suitable for noise-sensitive environments like e.g. a library, living room, music studio or even a bedroom. The Shuttle XPC slim Barebone DS20U7 is officially approved for 24/7 permanent operation - even at ambient temperatures of up to 40 °C (noncondensing).



Power on after Power fail

The BIOS setup provides a "Power-On after Power Fail" function that can be found under "Power Management Configuration". As the name indicates, this function determines the PC's behaviour after power failure: (1) unconditional power on, (2) restore former status (3) keep system turned off (4) Power-On by LAN or (5) Power-On by Real-Time-Clock, As a matter of the nature of this function, it may fail after short power failures. This is why the DS20U7 also comes with a hardware-based solution. By removing Jumper JP9 the system will start unconditionally once power is applied.



Energy-efficient Processor

This XPC is equipped with an energyefficient ultra low voltage (ULV) processor which belongs to Intel's 10thgeneration Intel Core processor familv codenamed "Comet Lake-U". It is soldered to mainboard and passively cooled by a large heatsink. As a result of further integration, it comes as a system-on-a-chip (SoC) without the need of an extra chipset.



External power button by separate remote line

If, because of space constraints (e.g. in case of fixed installation), the machine cannot be switched on by pressing the front power button, it can be powered on by a separate remote line. You will find an appropriate four-pin connector at the back panel of the DS20U7 (pitch 2.54 mm). Furthermore, this connector provides a Clear CMOS function and +5V DC voltage supply for external devices.



Dual 4K Display support The DS20U7 features two digital video outputs: HDMI 2.0a and Display-Port 1.2 which both can run at 4K (3840 x 2160 / 2160p) high resolution at 60 Hz frames per second. Furthermore, the DS20U7 supports an D-Sub/VGA port which can be used simultaneously.

Clear CMOS ••



Power Button +5V Power

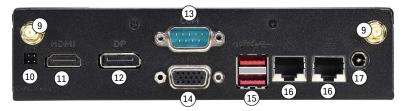
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Front and Back Panel

Front panel



Back panel



- 18
- 19 19

- 1. 2x USB 3.2 Gen 2 port
- 2. 4x USB 2.0 port
- 3. LED indicator for power state
- 4. LED indicator for storage activity
- 5. Power button
- 6. SD card reader
- 7. Microphone input
- 8. Headphones output
- 9. 2x WLAN perforation
- 4-pin connector (2.54 mm pitch) for external power button, Clear CMOS button and 5V DC voltage
- 11. HDMI 2.0a port
- 12. DisplayPort 1.2
- 13. COM port supports RS232/RS422/RS485
- 14. D-Sub/VGA port for analog displays
- 15. 2x USB 3.2 Gen 2 port
- 16. 2x RJ45 Gigabit LAN port
- 17. DC-in connector for power adapter
- 18. Hole for Kensington Lock (the lock-and-cable is not included)

19. VESA mount (two parts)

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Front panel

- 1. 2x pre-installed WLAN cable for optional antenna
- 2. D-Sub/VGA port with cable to the onboard connector
- 3. Onboard COM 2 port supports RS232
- 4. M.2-2280M slot for SSD card (also supports M.2-2260/2242)
- 5. Always-Power-On jumper (JP9)
- 6. M2-2230E slot for optional WLAN card
- 7. CMOS battery with cable to the onboard connector
- 8. Onboard USB 2.0 connector (4-pin)
- 9. 2x SO-DIMM memory slot (260-pin)
- 10. SATA/Power connector for the 2.5" bay
- 11. WLAN module (not included)
- 12. Mounting bracket for the 2.5" drive (hard disk or SSD)



REQUIRED COMPONENTS

The following components need to be added to make it a fully-configured Mini PC

Shuttle XPC slim Barebone DS20U7 with removed bay covers





Memory Modules

Up to two DDR4-2666 (or higher) SO-DIMM memory modules max. 32 GB each



2.5" Storage Drive

SATA hard disk or Solid State Disk (SSD) (max. height: 12.5 mm)



M.2 SSD (optional) M.2-2280/2260/2242 SSD storage (SATA or PCIe x4/NVMe)



Operating SystemWindows 10/11 or Linux (64-bit only)

OPTIONAL ACCESSORIES FROM SHUTTLE



WLAN-Accessory WLN-M / WLN-M1

M.2-2230 card supports WLAN and Bluetooth including 2 antennas



Cable CXP01

Cable for external push button switch (without button)



LTE Adapter Kit WWN03

allows the installation of an M.2 LTE card and nano SIM card (occupies the 2.5" bay). The LTE and SIM card are not included.



DIN-Rail Kit DIRO1
This mounting kit allows the installation on a standard 35 mm DIN-Rail



COM Port Adapter PCP11

If two COM ports are required, the existing VGA port may be removed and replaced by PCP11 instead.



Rack Mount Kit PRM01

2U front plate to install up to two 1.3L Shuttle XPCs in a 19" cabinet.



Shuttle Product Comparison

MODEL	DS20U Series	DS10U Series
Processor	Intel Gen. 10 "Comet Lake-U", TDP= 15W, 14 nm DS20U: Celeron 5205U, 2/2 cores, 1.9 GHz DS20U3: Core i3-10110U, 2/4 cores, 2.1/4.1 GHz DS20U5: Core i5-10210U: 4/8 cores, 1.6/4.2 GHz DS20U7: Core i7-10510U, 4/8 cores, 1.8/4.8 GHz	Intel Gen. 8 "Whiskey Lake-U", TDP= 15W, 14 nm DS10U: Celeron 4205U, 2/2 cores, 1.8 GHz DS10U3: Core i3-8145U, 2/4 cores, 2.1/3.9 GHz DS10U5: Core i5-8265U: 4/8 cores, 1.6/3.9 GHz DS10U7: Core i7-8565U, 4/8 cores, 1.8/4.6 GHz
RAM Suppport	2x SO DIMM (260-pins) max. 2x 32 GB <mark>DDR4-2400/2666</mark>	2x SO DIMM (260-pins) max. 2x 32 GB DDR4-2133/2400
2.5" bay	Supports 2.5" SATA drive max. height: 12.5 mm	Supports 2.5" SATA drive max. height: 12.5 mm
M.2-2280 slot	M.2-2280 supports NVMe/PCIe X4 and SATA	M.2-2280 supports NVMe/PCIe X4 and SATA
Audio	Realtek ALC897/ALC662	Realtek ALC662
Dual GIGABIT LAN	Intel i211 + i219LM	Intel i211 + i219LM
WLAN	optional (pre-mounted antenna cables)	Realtek RTL8821AE 2x External Antenna Supports 802.11-ac (1T1R)
Front Panel	On/Off button Power LED, HDD LED 2x USB 3.2 Gen 2 (red) *) 4x USB 2.0 SD card reader 2x Audio ports	On/Off button Power LED, HDD LED 2x USB 3.2 Gen 2 (red) *) 4x USB 2.0 SD card reader 2x Audio port
Back Panel	HDMI 2.0a DisplayPort 1.2 D-Sub/VGA 2x USB 3.2 Gen 2 (red) *) 2x Gigabit LAN (RJ45) 1x COM (RS232/RS422/485) 4-pin power on connector	HDMI 2.0a DisplayPort 1.2 D-Sub/VGA 2x USB 3.2 Gen 2 (red) *) 2x Gigabit LAN (RJ45) 1x COM (RS232/RS422/485) 4-pin power on connector 2x external WLAN antenna
DC-in port	Supports 12 V and 19 V	Supports 12 V and 19 V
Power Adapter	65 W (19V, 3.42 A) 3-pin AC plug with earthed safety plug	65 W (19V, 3.42 A) 2-pin AC plug
Vertical Stand	included	included
VESA Mount	included	included
Optional Accessories	CXPO1: cable for ext. power button PRMO1: 2U rack-mount kit DIRO1: DIN-Rail mounting kit PCP11: RS232 COM port instead of VGA WWNO3: LTE kit for 2.5" drive bay WLN-M/-M1: WLAN kit with external antennas	CXPO1: cable for ext. power button PRM01: 2U rack-mount kit DIR01: DIN-Rail mounting kit PCP11: RS232 COM port instead of VGA WWN03: LTE kit for 2.5" drive bay
Front View	Shuttle © © O	Shuttle © © O
Back View		

^{*)} Note: DS10U and DS20U with Celeron processor suppors USB 3.2 Gen 1 (blue connector) only



SHUTTLE XPC SLIM BAREBONE DS20U7 — SPECIFICATIONS

	Desaite applies no fan poise et all
FANLESS AND SILENT	Passive cooling, no fan noise at all Perfect to be used in noise-sensitive environments
	Fanless, dust-free and thus virtually maintenance-free
LOW POWER CONSUMPTION	Power consumption in idle mode with 2.5" SSD under Windows 10: ca. 6 W only
0.4/7.1/01/07/07	This device is approved for 24/7 permanent operation. Requirements:
24/7 NONSTOP Operation	- Free circulation of air amongst the PC must be guaranteed. - Ventilation holes must stay clear.
	- If a hard disk is installed, this must also be approved for permanent operation by its manufacturer
	Slim-PC with black steel chassis Without cooling fan, passive cooling only
	The bays for memory, 2.5" drive and M.2 card
CHASSIS	can easily be accessed by removing two cover plates. Dimensions: 200 x 165 x 39.5 mm (LWH) = 1.3 litres
	Weight: 1.5 kg net and 2.2 kg gross Two holes for Kensington Lock and numerous
	threaded holes (M3) at both sides of the chassis
OPERATION POSITION	1) Vertical: Usual operating position with the supplied feet (DisplayPort output facing up). 2) VESA-mounted: The device can also be mounted behind an appropriate monitor using the supplied VESA mount kit. Note: From a thermal point of view horizontal operation is permitted. However, there are no rubber feet on the device. The maximum operating temperature is 35 °C then.
ODED ATING SYSTEM	This barebone system comes without operating system.
OPERATING SYSTEM	It is compatible with Windows 10/11 (64-bit) and Linux (64-bit).
	Model: Intel Core i7-10510U (ULV) System-on-a-chip architecture (SoC) with integrated memory and graphics controller FCBGA1528 package - directly soldered onto the mainboard Code name: Comet Lake U (10th Generation Intel Core)
PROCESSOR PROCESSOR	Cores / Threads: 4 / 8 Base frequency: 1.8 GHz
11133233311	Max. Turbo frequency: 4.9 GHz Intel Smart Cache: 8 MB
	TDP wattage: 15 W maximum Manufacturing process: 14nm
	Maximum Tjunction Temperature: 100 °C
	Supports 64-bit, VT-x (EPT), VT-d, Enhanced SpeedStep, NX bit, AES-NI, SSE 4.1/4.2 Intel UHD Graphics
	GPU clock frequency: 300~1150 MHz
	Execution Units (EUs): 24 Supports DirectX 12, OpenGL 4.5
INTEGRATED GRAPHICS	Supports full H264, H265 8/10 bit, VP8/9, VC-1, AVC hardware decoding Supports Quick Sync Video and Clear Video HD technology
	Supports up to three independent screens:
	1) DisplayPort 1.2 supports Ultra HD @ 60 Hz 2) HDMI 2.0a supports Ultra HD @ 60 Hz
	3) D-Sub/VGA supports analog displays
	Shuttle Mainboard FS20 All capacitors are high quality solid capacitors Supports resume after power failure [6]
MAINBOARD / BIOS	Supports Wake on LAN (WOL) Supports Power on by RTC Alarm
MAINDOARD / BIOS	Supports boot from M.2 SSD cards und USB devices AMI BIOS in 16 MByte EEPROM with SPI interface
	Supports hardware monitoring and Watchdog function
	Supports Unified Extensible Firmware Interface (UEFI) Supports Firmware-TPM (fTPM) Version 2.0



POWER ADAPTER	External 65 W power adapter (fanless) Input: 100~240 V AC, 50/60 Hz, max. 1.6 A Output: 19 V DC, max. 3.42 A, max. 65 W DC cable length: ca. 170 cm AC cable length: ca. 170 cm (3-pin Micky MM C6 and Schuko earthed safety plug)
DC INPUT CONNECTOR	DC Input Connector: 5.5 / 2.5 mm (outer/inner diameter) The DC-input of the computer supports an external power source with either 12V±5% or 19V±5%.
MEMORY SUPPORT	2x SO-DIMM slot with 260 pins Supports DDR4-2666 (PC4-21300) SDRAM at 1.2 V Supports DDR4-3200 at 2666 MHz Supports Dual Channel mode Supports a maximum of 32 GB per DIMM, maximum total size: 64 GB Supports two unbuffered DIMM modules (no ECC or registered)
2.5" DRIVE BAY	2.5" Drive Bay with SATA connector Supports one Serial ATA hard disk or one SATA SSD drive in 6.35 cm / 2.5" format Device height: max. 12.5 mm Supports Serial-ATA III, 6 Gb/s (600 MB/s) bandwidth Supports Unified Extensible Firmware Interface (UEFI) Note: no Serial ATA cable is required.
M.2-2280M SLOT FOR SSDs	The M.2 2280 BM slot provides the following interfaces: - PCI-Express Gen. 3.0 X4 - SATA v3.0 (max. 6 Gbps) It supports M.2 cards with a width of 22 mm and a length of 42, 60 or 80 mm (type 2242, 2260, 2280). Supports M.2 SATA SSDs (with B+M key) and M.2 PCIe NVMe SSDs (with M key)
M.2-2230E SLOT FOR WLAN CARDS	Interfaces: PCI-Express Gen. 3.0 X1 und USB 2.0 Supports M.2 cards with a width of 22 mm and a length of 30 mm (type 2230) Supports WLAN expansion cards (optional Shuttle accessory: WLN-M / WLN-M1) 2x pre-installed antenna cables
CARD READER	Integrated SD card reader Supports SD, SDHC and SDXC memory flash cards
AUDIO	Audio Realtek® ALC897 or ALC662 High-Definition Audio Two analog audio connectors (3.5 mm) at the front panel: 1) 2 channel line out (headphones) 2) microphone input Digital multi-channel audio output: via HDMI and DisplayPort
DUAL GIGABIT LAN	Dual network with two RJ45 ports Used network chips: 1) Intel i211 Ethernet Controller with MAC, PHY and PCIe interface 2) Intel i219LM PHY connected to the MAC of the processor Supports 10 / 100 / 1.000 MBit/s operation Supports WAKE ON LAN (WOL) Supports network boot by Preboot eXecution Environment (PXE) Supports Teaming mode [3]
PREPARED FOR WLAN	2x pre-installed antenna cables (WLAN card and antennas not included) Prepared for the installation of an M.2-2242 WLAN card and two external antennas
FRONT PANEL Connectors	2x USB 3.2 Gen 2 (red, max. 10 Gbps) 4x USB 2.0 Microphone input Audio Line-out (headphones) SD card reader (supports SD, SDHC, SDXC) Power button Power LED (blue) HDD LED (yellow)



BACK PANEL CONNECTORS	DisplayPort 1.2 [7] HDMI 2.0a D-Sub/VGA 2x USB 3.2 Gen 2 (red, max. 10 Gbps) 2x Intel Gigabit LAN (RJ45) Serial COM port (5V / 12V, switchable to RS232 / RS422 / RS485) [1] DC-input connector for external power adapter 4-pin connector (2.54 mm pitch) for power button, Clear CMOS and 5 V DC [4]
ALWAYS-ON JUMPER	By removing Jumper J9 (please refer to the quick user guide), the system will start unconditionally once power is applied. [6]
SUPPLIED ACCESSORIES	Multi-language user guide Two metal feet with four screws M3 x 7 mm VESA mount for 75/100mm standard (two metal brackets) Four screws M3 x 7 mm (screws together VESA mount and PC) Four screws M4 x 10 mm (to fix the VESA mount to the external surface) Two screws M3 x 5 mm to mount a 2.5" storage in the bay Two screws M3 x 5 mm to mount M.2 cards Driver DVD for Windows External 65W power adapter with power cord (with protective-earth contacts)
OPTIONAL ACCESSORIES	PCP11: adapter cable for the second COM port (replaces the VGA port) CXP01: adapter cable for external power button WWN03: LTE adapter kit for the 2.5" bay including two external LTE antennas [2] WLN-M / WLN-M1: WLAN module (supports WLAN + Bluetooth) with two external antennas and cables PRM01: 2U rack mount front plate for two Shuttle XPC slim DIR01: mounting kit for 35 mm DIN-Rail
ENVIRONMENTAL SPECIFICATIONS	Operating temperature range: 0~40 °C [5] Relative humidity, non-condensing: 10~90 %
CONFORMITY & CERTIFICATIONS	EMI: CE, FCC, BSMI, RCM, VCCI Safety: CB, BSMI, cTUVus Other: RoHS, Energy Star, ErP This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU directives: (1) 2014/30/EU relating to electromagnetic compatibility (EMC) (2) 2014/35/EU relating to Electrical Equipment designed for use within certain voltage limits (LVD) (3) 2009/125/EC relating to eco design requirements for energy-related products (ErP)

Footnote:

[1] Jumper for COM port configuration

Pin 9 of the COM-Port is a multi-functional signal. Based on the Jumper JP1 configuration on the mainboard, it can be configured as Ring Indicator (RI) or external power supply with a voltage level of either 5 V or 12 V. Each COM port can be configured separately. The operating mode of COM 1 can be set to RS232, RS422 or RS485 in the BIOS.

The second COM port (COM 2) supports RS232 mode only, and in the standard SKU of DS20Ux this is only available as an onboard connector on the main-board. An appropriate adapter (e.g. the optional accessory PCP11) is required in order to provide this port as D-Sub connector at the back panel. In this case the VGA port cannot be used.

[2] LTE Adapter Kit WWN03

Using the LTE adapter kit WWN03 means, that the 2.5" bay can no longer be used for SATA drives in 2.5" format (hard disk or SSD). An SSD card in the M.2-2280 format must be used instead.

[3] Teaming Mode

The teaming function allows you to group both available network adapters together to function as a single adapter. The benefit of this approach is that it enables load balancing and failover.

[4] Four-pin header at the back panel

This header allows for connecting an external power button.

It also provides 5 V DC voltage for external devices and the Clear CMOS function. Optional accessory: the adapter cable CXPO1.

[5] Caution: For ambient temperatures higher than 35 °C

we strongly recommend to use an SSD instead of an HDD

[6] Power on after power fail:

The BIOS setup provides a "Power-On after Power Fail" function that can be found under "Power Management Configuration". This function determines the PC's behaviour after power failure. As a matter of the nature of this function, it may fail after short power failures. This is why the Shuttle XPC slim Barebone DS20Ux also comes with a hardware-based solution. By removing Jumper J9 (please refer to the quick user guide), the system will start unconditionally once power is applied.

[7] How to convert DisplayPort into HDMI/DVI



PRODUCT SPECIFICATIONS

The DisplayPort output can be converted to HDMI or DVI by an additional, passive adapter cable. For example:

DELOCK 82590: 1 m, DisplayPort (male, 20p) to HDMI-A (male, 19p)
DELOCK 82435: 5 m, DisplayPort (male, 20p) to DVI-D (male, 24p)
The integrated graphics automatically detects the connected display and puts out the appropriate electric signal - either through DisplayPort (without an adapter) or HDMI/DVI (with an adapter).

However, a monitor with a DisplayPort connector cannot be connected to the HDMI port with a simple, passive adapter.

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