

## Universal housings - UCS 237-195-F-GD-RPI-DT7 9005 - 1104781

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Complete housing for Raspberry Pi printed-circuit boards. Includes housing half shells, adhesive strips for integrating the display, side panels with openings for all relevant connections, adhesive pads for affixing the Raspberry Pi model B2 and B3 computers, screws for housing and PCB attachment; black housing with turquoise-blue corner inlays

### Your advantages

- Glue & play - ready-to-install solution with no further processing
- Space for additional electronics expands the Raspberry Pi minicomputer's areas of application
- Can be used universally thanks to extensive accessories



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 0 5 5 6 2 6 9 7 1 8 2 7
GTIN	4055626971827
Weight per Piece (excluding packing)	361.660 g
Custom tariff number	85389099
Country of origin	Germany
Sales Key	ACFCAA

### Technical data

#### Item properties

Type	UCS 237-195-F-GD-RPI-DT7 9005
Order No.	1104781
Housing type	Universal housings
Type	Flat design
Max. IP code to attain	IP20
Ventilation openings present	no

#### Measurements

Caption	Schematic representation – for additional information, see product range drawing in the Download Center
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## Technical data

### Measurements

Width [ w ]	237 mm
Height [ h ]	195 mm
Depth [ d ]	47 mm
Dimensions	212 mm x 170.2 mm (Maximum circuit board dimensions)

### Material specifications

Housing material	PC
Surface characteristics	untreated
Color (RAL)	black (9005)
Insulating material	PC
CTI according to IEC 60112	225
Flammability rating according to UL 94	V0

### Ambient conditions

Ambient temperature (storage/transport)	-30 °C ... 55 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-20 °C ... 70 °C (depending on power dissipation)
Relative humidity (storage/transport)	80 %

### PCB data

Number of PCB holders	1
Note on PCB holders	This product is prepared for a printed-circuit board. Additional printed-circuit boards can be mounted using adhesive pads (accessories).
PCB thickness	0.8 mm ... 3 mm
Total PCB surface	36040 mm <sup>2</sup>
Type of PCB mount	Bolt mounting
Supported form factors	Raspberry Pi

### Power dissipation, single housing at 20 °C

Ambient temperature	20 °C
Reduction factor	1
Mounting position	vertical
Power dissipation	31 W

### Power dissipation, single housing at 30 °C

Ambient temperature	30 °C
Reduction factor	0.8
Mounting position	vertical
Power dissipation	25.5 W

### Power dissipation, single housing at 40 °C

Ambient temperature	40 °C
Reduction factor	0.65
Mounting position	vertical

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## Technical data

### Power dissipation, single housing at 40 °C

Power dissipation	20.3 W
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### Power dissipation, single housing at 50 °C

Ambient temperature	50 °C
Reduction factor	0.5
Mounting position	vertical
Power dissipation	15.5 W

### Power dissipation, single housing at 60 °C

Ambient temperature	60 °C
Reduction factor	0.32
Mounting position	vertical
Power dissipation	10 W

### Mechanical strength/tumbling barrel

Specification	IEC 60068-2-31:2008-05
Height of fall	50 cm
Number of drop cycles	50

### Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.15 mm (10 - 58.1 Hz)
Acceleration	2g (58.1 - 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

### Shock

Specification	IEC 60068-2-27:2008-02
Pulse shape	Half-sine
Acceleration	15g
Shock duration	11 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

### Thermostability (ball thrust test)

Specification	IEC 60695-10-2:2014-02
Temperature	125 °C
Test duration	1 h
Force	20 N

### Test for assessing the risk of fire (glow wire)

Specification	DIN EN 60695-2-11 (VDE 0471-2-11):2014-11
Temperature	850 °C

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## Technical data

### Test for assessing the risk of fire (glow wire)

Time of exposure	30 s
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### Test for substances that would hinder coating with paint or varnish

Result	Test passed
Specification	VW PV 3.10.7:2005-02

### Degrees of protection provided by enclosures (IP code)

Specification	IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08
Result, degree of protection, IP code	IP20

### General information

Note	The housing can be opened a maximum of 10 times.
	Attach the adhesive pads: Make sure that the surface of the housing is clean, dry, and free of grease. Temperature range: +18°C ... +30°C / Closing pressure force: 60 N / Closing pressure time: 3 s

### Note on mounting

Tightening torque / rotational speed	Screw connection between housing halves: 1.2 Nm-1.4 Nm / 500 rpm-1000 rpm
	Mounting the PCB: 0.4 Nm-0.5 Nm / 500 rpm-1000 rpm
Drive form screw head	Screw connection between housing halves: Slotted Torx®(T10)
	Mounting the PCB: Slotted Torx®(T7)

### Packaging information

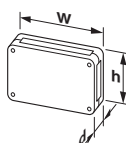
Type of packaging	Box packaging
Pieces per package	1
Denomination packing units	Pcs.

### Standards and regulations

Flammability rating according to UL 94	V0
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## Drawings

Dimensional drawing



Schematic representation – for additional information, see product range drawing in the Download Center

## Classifications

eCl@ss

eCl@ss 10.0.1	27182702
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## Classifications

### eCl@ss

eCl@ss 11.0	27182702
eCl@ss 5.1	27180506
eCl@ss 6.0	27180800
eCl@ss 7.0	27182702
eCl@ss 9.0	27182702

### ETIM

ETIM 6.0	EC001031
ETIM 7.0	EC001031

### UNSPSC

UNSPSC 18.0	31261501
UNSPSC 19.0	31261501
UNSPSC 20.0	31261501
UNSPSC 21.0	31261501

## Accessories

### Accessories

#### Screwdriver tools

Screwdriver - SF-TXH 10X80 - 1200149



Screwdriver, Torx® with bore hole, TX 10 x 80, two-component handle

Screw insert - SF-BIT-TX 10-50 - 1212573



Screw bit, Torx®, E6.3-1/4" drive, size: TX 10 x 50 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

#### Torque tool

Battery-powered screwdriver - SF-ASD 21 - 1212532



Cordless screwdriver, incl. 1.5 Ah battery, forward/reverse running, 21-stage coupling, up to 600 rpm, 6.3 mm hexagonal fast connection drill chuck, torque can be adjusted from 0.3 ... 4.4 Nm

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## Accessories

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Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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## Additional products

Corner inlay - UCS CC 7035 - 2203395

Corner inlay for UCS housings, material: polyamide, color: light gray, similar to RAL 7035



Corner inlay - UCS CC 9005 - 2203396

Corner inlay for UCS housings, material: polyamide, color: black, similar to RAL 9005



Screw set - UCS SF 3,5X20 - 2203402



Screw set for creating a UCS housing of height 47 mm

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Screw set - UCS SF 3,5X40 - 2203403



Screw set for creating a UCS housing of height 67 mm

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### Accessories

#### Mounting set - UCS GD 9005 - 2203401

Adhesive screw boss, for securing the printed-circuit board, material: polyamide; content 4 pieces with screws 2.5 x 8



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#### Stand - UCS PED 9005 - 2203393



Stand for mounting the UCS housing; height: 47 mm; material: polyamide; color: black, similar to RAL 9005; wall mounting option is integrated, snaps into the screw holes of the housing

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#### Stand - UCS PED 7035 - 2203392



Stand for mounting the UCS housing; height: 47 mm; material: polyamide; color: light gray, similar to RAL 7035; wall mounting option is integrated, snaps into the screw holes of the housing

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#### Stand - UCS PED 5018 - 2203394



Stand for mounting the UCS housing, height: 47 mm; material: polyamide; color: turquoise blue, similar to RAL 5018; wall mounting option is integrated, snaps into the screw holes of the housing

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#### Wall bracket - UCS WM-B 7035 - 2203718



Adapter for mounting the UCS housing on the wall, material: polyamide, color: light gray similar to RAL 7035, used instead of UCS CC corner insert; only used in conjunction with UCS GD 9005 adhesive pad

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### Accessories

#### Wall bracket - UCS WM-B 9005 - 2203719



Adapter for mounting the UCS housing on the wall, material: polyamide, color: black similar to RAL 9005, used instead of UCS CC corner insert; only used in conjunction with UCS GD 9005 adhesive pad

#### Wall bracket - UCS WM-B 5018 - 2203391



Adapter for mounting the UCS housing on the wall, material: polyamide, color: turquoise similar to RAL 5018, used instead of UCS CC corner insert. Only used in conjunction with UCS GD 9005 adhesive pad

#### Corner guards - UCS CP 7035 - 2203346



Adapter for protecting the corners of the UCS housing; material: TPE-U; color: light gray, similar to RAL 7035; held in the screw holes of the housing

#### Corner guards - UCS CP 9005 - 2203347



Adapter for protecting the corners of the UCS housing; material: TPE-U; color: black, similar to RAL 9005; held in the screw holes of the housing

#### Corner guards - UCS CP 5018 - 2203348



Adapter for protecting the corners of the UCS housing; material: TPE-U; color: turquoise blue, similar to RAL 5018; held in the screw holes of the housing



## Universal housings - UCS 237-195-F-GD-RPI-DT7 9005 - 1104781

### Accessories

#### Stacking adapters - UCS CS 7035 - 2203720



Adapter for stacking several UCS housings of one size; material: TPE-U; color: light gray, similar to RAL 7035; held in the screw holes of the housing

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#### Stacking adapters - UCS CS 9005 - 2203721



Adapter for stacking several UCS housings of one size; material: TPE-U; color: black, similar to RAL 9005; held in the screw holes of the housing

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#### Stacking adapters - UCS CS 5018 - 1029039



Adapter for stacking several UCS housings of one size; material: TPE-U; color: turquoise blue, similar to RAL 5018; held in the screw holes of the housing

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#### Fiber optic - HS LC-H-D2/ R2XC1-2,54 - 2202316



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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#### Fiber optic - HS LC-H-D2/ R2XC2-2,54 - 2202317



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

## Universal housings - UCS 237-195-F-GD-RPI-DT7 9005 - 1104781

### Accessories

Fiber optic - HS LC-H-D2/ R2XC5-2,54 - 2202318



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Fiber optic - HS LC-H-D2/ R2XC10-2,54 - 2202319



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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