UCS 237-195-F-GD-RPI-DT7 7035 - Universal housings

1104780

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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; light gray 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

Commercial data

Item number	1104780
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AC03
Product key	ACFCAA
GTIN	4055626972381
Weight per piece (including packing)	678.1 g
Weight per piece (excluding packing)	669.7 g
Customs tariff number	84879090
Country of origin	DE

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Technical data

Notes

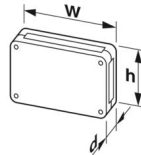|	
Assembly note	The housing can be opened a maximum of 10 times.
Note on application	Attach the adhesive pads: Make sure that the surface of the housing is clean, dry, and free of grease. Temperature range: +18°C ... +30°C / Closing pressure force: 60 N / Closing pressure time: 3 s

Product properties

Product type	Complete housing
Housing type	Universal housings
Housing series	UCS
Product family	UCS 237-195
Type	Flat design (GD), RPI-DT7
Ventilation openings present	no

Data management status

Article revision	02

Dimensions

Dimensional drawing	
Width	237 mm
Height	195 mm
Depth	47 mm
Dimensions	212 mm x 170.2 mm (Maximum circuit board dimensions)

PCB design

PCB thickness	0.8 mm ... 3 mm

Material specifications

Color (Housing)	light gray (RAL 7035)
Flammability rating according to UL 94	V0
CTI according to IEC 60112	225
Insulating material	PC
Housing material	PC
Surface characteristics	untreated

Environmental and real-life conditions

Power dissipation single housing for 20 °C

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

Power dissipation single housing for 30 °C

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

Power dissipation single housing for 40 °C

Ambient temperature	40 °C
Reduction factor	0.65
Mounting position	vertical
Power dissipation	20.3 W

Power dissipation single housing for 50 °C

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

Power dissipation single housing for 60 °C

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

Vibration test

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

Glow-wire test

Specification	IEC 60695-2-11:2014-02
Temperature	850 °C
Time of exposure	30 s

Thermal stability / ball thrust test

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

Force	20 N

Mechanical strength / tumbling barrel

Specification	IEC 60068-2-31:2008-05
Height of fall	50 cm
Frequency	50

Shocks

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.)

Test for substances that would hinder coating with paint or varnish

Specification	VW PV 3.10.7:2005-02
Result	Test passed

Degree of protection (IP code)

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

Ambient conditions

Max. IP code to attain	IP20
Ambient temperature (operation)	-20 °C ... 70 °C (depending on power dissipation)
Ambient temperature (storage/transport)	-30 °C ... 55 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Relative humidity (storage/transport)	80 %

PCB data

Number of PCB holders	1
Type of PCB mount	Bolt mounting
Total PCB surface	36040 mm²
Thickness of the PCB	0.8 mm ... 3 mm
Supported form factors	Raspberry Pi
Note on PCB holders	This product is prepared for a printed-circuit board. Additional printed-circuit boards can be mounted using adhesive pads (accessories).

Mounting

Mounting type	Screw mounting
Mounting position	any
Tightening torque / speed	Screw connection between housing halves: 1.2 - 1.4 Nm / 500 - 1000 rpm
	Mounting the PCB: 0.4 - 0.5 Nm / 500 - 1000 rpm

Packaging specifications

Type of packaging	Box packaging

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Drawings

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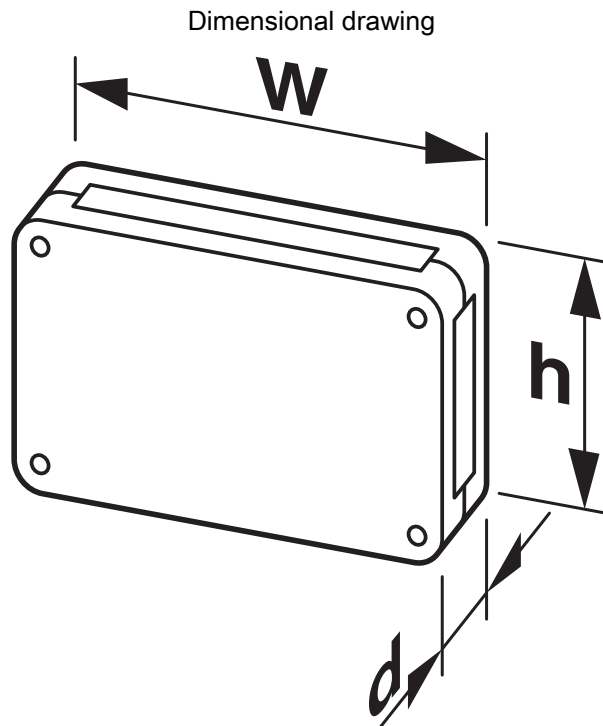
Schematic representation – for additional information, see product range drawing in the Download Center

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1104780

UL Recognized
Approval ID: E240868

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Classifications

ECLASS

ECLASS-11.0	27182702
ECLASS-13.0	27190603

ETIM

ETIM 9.0	EC001031

UNSPSC

UNSPSC 21.0	31261500

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Accessories

SF-TXH 10X80 - Screwdriver

1200149

https://www.phoenixcontact.com/us/products/1200149

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

SF-ASD 21 - Cordless screwdriver

1212532

https://www.phoenixcontact.com/us/products/1212532

Cordless screwdriver, including 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 Nm ... 4.4 Nm

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TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224

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

SF-BIT-TX 10-50 - Screw insert

1212573

https://www.phoenixcontact.com/us/products/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

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UCS CC 7035 - Corner inlay

2203395

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

UCS CC 9005 - Corner inlay

2203396

https://www.phoenixcontact.com/us/products/2203396

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

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UCS SF 3,5X20 - Screw set

2203402

https://www.phoenixcontact.com/us/products/2203402

Screw set for creating a UCS housing of height 47 mm

UCS SF 3,5X40 - Screw set

2203403

https://www.phoenixcontact.com/us/products/2203403

Screw set for creating a UCS housing of height 67 mm

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UCS GD 9005 - Mounting set

2203401

https://www.phoenixcontact.com/us/products/2203401

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

UCS PED 9005 - Stand

2203393

https://www.phoenixcontact.com/us/products/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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UCS PED 7035 - Stand

2203392

https://www.phoenixcontact.com/us/products/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

UCS PED 5018 - Stand

2203394

https://www.phoenixcontact.com/us/products/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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UCS WM-B 7035 - Wall bracket

2203718

https://www.phoenixcontact.com/us/products/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

UCS WM-B 9005 - Wall bracket

2203719

https://www.phoenixcontact.com/us/products/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

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UCS WM-B 5018 - Wall bracket

2203391

https://www.phoenixcontact.com/us/products/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

UCS CP 7035 - Corner guards

2203346

https://www.phoenixcontact.com/us/products/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

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UCS CP 9005 - Corner guards

2203347

https://www.phoenixcontact.com/us/products/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

UCS CP 5018 - Corner guards

2203348

https://www.phoenixcontact.com/us/products/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

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UCS CS 7035 - Stacking adapters

2203720

https://www.phoenixcontact.com/us/products/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

UCS CS 9005 - Stacking adapters

2203721

https://www.phoenixcontact.com/us/products/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

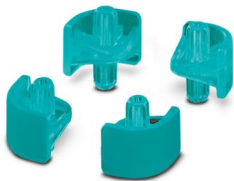# UCS 237-195-F-GD-RPI-DT7 7035 - Universal housings

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UCS CS 5018 - Stacking adapters

1029039

https://www.phoenixcontact.com/us/products/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

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

2202316

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Multiple light guides with glare protection, passive, rigid, Raised head, Emission surface: spherical, Number of displays: 2, (2 rows, 1 column), pitch: 2.54 mm, ESD protection: <8 kV, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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1104780

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

2202317

https://www.phoenixcontact.com/us/products/2202317

Multiple light guides with glare protection, passive, rigid, Raised head, Emission surface: spherical, Number of displays: 4, (2 rows, 2 columns), pitch: 2.54 mm, ESD protection: <8 kV, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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

2202318

https://www.phoenixcontact.com/us/products/2202318

Multiple light guides with glare protection, passive, rigid, Raised head, Emission surface: spherical, Number of displays: 10, (2 rows, 5 columns), pitch: 2.54 mm, ESD protection: <8 kV, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

UCS 237-195-F-GD-RPI-DT7 7035 - Universal housings

1104780

https://www.phoenixcontact.com/us/products/1104780

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

2202319

https://www.phoenixcontact.com/us/products/2202319

Multiple light guides with glare protection, passive, rigid, Raised head, Emission surface: spherical, Number of displays: 20, (2 rows, 10 columns), pitch: 2.54 mm, ESD protection: <8 kV, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)