UCS 125-87-F-GD-RPI4B 9005 - Universal housings

1139237

https://www.phoenixcontact.com/pc/products/1139237

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Complete housing for Raspberry Pi printed-circuit boards. Includes housing half shells, side panels with openings for all relevant connections, adhesive pads for affixing the Raspberry Pi model B4 computers, screws for housing and PCB attachment; black housing with turquoise-blue corner inlays

Your advantages

- High degree of application flexibility, thanks to the modular housing design
- Flexible PCB attachment, adapts to virtually all form factors
- Practical customization options
- Reduced logistics outlay, thanks to components which are compatible with one another
- Delivery as a complete housing with ready-machined side panels

Commercial data

Item number	1139237
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ACFCAA
GTIN	4063151082864
Weight per piece (including packing)	310.1 g
Weight per piece (excluding packing)	310.1 g
Customs tariff number	84879090
Country of origin	DE

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

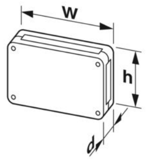
Product properties

Product type	Complete housing
Housing type	Universal housings
Housing series	UCS
Product family	UCS 125-87
Type	Flat design (GD), RPI4B
Ventilation openings present	no

Data management status

Article revision	00

Dimensions

Dimensional drawing	
Width	125 mm
Height	87 mm
Depth	47 mm
Dimensions	100 mm x 62 mm (Maximum circuit board dimensions)

PCB design

PCB thickness	0.8 mm ... 3 mm

Material specifications

Color (Housing)	black (RAL 9005)
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

Ambient temperature	20 °C
Reduction factor	1
Mounting position	vertical
Power dissipation	9.7 W

Power dissipation single housing for 30 °C

Ambient temperature	30 °C
Reduction factor	0.85
Mounting position	vertical
Power dissipation	8.3 W

Power dissipation single housing for 40 °C

Ambient temperature	40 °C
Reduction factor	0.68
Mounting position	vertical
Power dissipation	6.5 W

Power dissipation single housing for 50 °C

Ambient temperature	50 °C
Reduction factor	0.55
Mounting position	vertical
Power dissipation	5.4 W

Power dissipation single housing for 60 °C

Ambient temperature	60 °C
Reduction factor	0.4
Mounting position	vertical
Power dissipation	3.9 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)	-40 °C ... 105 °C (depending on power dissipation)
Ambient temperature (storage/transport)	-40 °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	6000 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

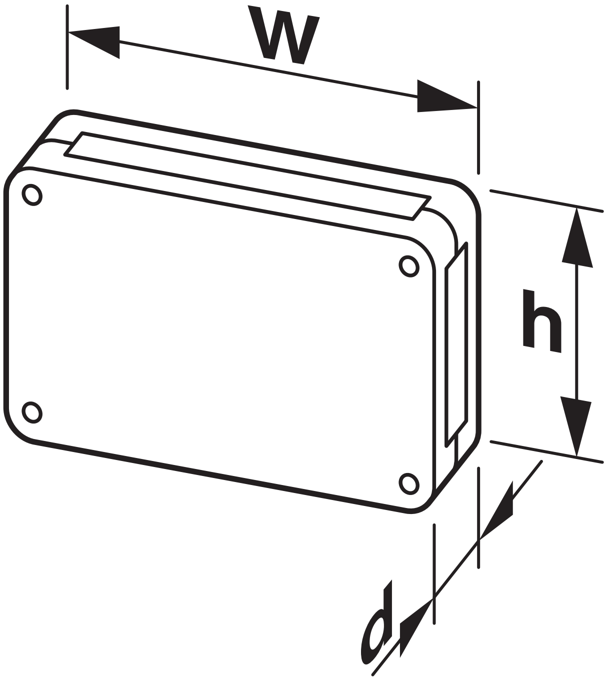
Mounting type	Screw mounting
Mounting position	any
Tightening torque / speed	Screw connection between housing halves: 1.2 - 1.4 Nm / 500 - 1000 rpm Mounting the PCB: 0.4 - 0.5 Nm / 500 - 1000 rpm

Packaging specifications

Type of packaging	Box packaging

Drawings

Dimensional drawing



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

Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1139237

UL Recognized
Approval ID: E240868

Classifications

ECLASS

ECLASS-11.0	27182702
ECLASS-13.0	27190603

ETIM

ETIM 9.0	EC001031

UNSPSC

UNSPSC 21.0	31261500

Accessories

SF-TXH 10X80 - Screwdriver

1200149

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

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

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SF-ASD 21 - Cordless screwdriver

1212532

https://www.phoenixcontact.com/pc/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

TSD-M 1,2NM - Torque screwdriver

1212224

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

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

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SF-BIT-TX 10-50 - Screw insert

1212573

https://www.phoenixcontact.com/pc/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

UCS CC 7035 - Corner inlay

2203395

https://www.phoenixcontact.com/pc/products/2203395

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

UCS CC 9005 - Corner inlay

2203396

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

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

UCS SF 3,5X20 - Screw set

2203402

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

Screw set for creating a UCS housing of height 47 mm

UCS SF 3,5X40 - Screw set

2203403

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

Screw set for creating a UCS housing of height 67 mm

UCS GD 9005 - Mounting set

2203401

https://www.phoenixcontact.com/pc/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/pc/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

UCS PED 7035 - Stand

2203392

https://www.phoenixcontact.com/pc/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/pc/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

UCS WM-B 7035 - Wall bracket

2203718

https://www.phoenixcontact.com/pc/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/pc/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

UCS WM-B 5018 - Wall bracket

2203391

https://www.phoenixcontact.com/pc/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

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UCS CP 7035 - Corner guards

2203346

https://www.phoenixcontact.com/pc/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

UCS CP 9005 - Corner guards

2203347

https://www.phoenixcontact.com/pc/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

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UCS CP 5018 - Corner guards

2203348

https://www.phoenixcontact.com/pc/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

UCS CS 7035 - Stacking adapters

2203720

https://www.phoenixcontact.com/pc/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

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UCS CS 9005 - Stacking adapters

2203721

https://www.phoenixcontact.com/pc/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 CS 5018 - Stacking adapters

1029039

https://www.phoenixcontact.com/pc/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

UCS DIN 125-F 7035 - DIN rail adapter

2203838

https://www.phoenixcontact.com/pc/products/2203838

DIN rail adapter for mounting one UCS 125-87-F housing (long side) or UCS 145-125-F housing (short side) onto an NS 35 DIN rail; will be set into the housing instead of a UCS SW 125 side wall; material: polycarbonate; color: light gray, similar to RAL 7035

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

2202316

https://www.phoenixcontact.com/pc/products/2202316

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)

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

2202317

https://www.phoenixcontact.com/pc/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/pc/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)

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

2202319

https://www.phoenixcontact.com/pc/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)

UCS DIN 125-F 9005 - DIN rail adapter

1174338

https://www.phoenixcontact.com/pc/products/1174338

DIN rail adapter for mounting one UCS 125-87-F housing (long side) or UCS 145-125-F housing (short side) onto an NS 35 DIN rail; will be set into the housing instead of a UCS SW 125 side wall; material: polycarbonate; color: black, similar to RAL 9005

UCS WM-MP 125-87 7035 - Adapter plate

1225407

https://www.phoenixcontact.com/pc/products/1225407

Adapter for attaching UCS housings in size 125-87 to the wall, to VESA standard brackets, and to wall outlet boxes, housing is snapped on, material: polycarbonate, color: light gray, similar to RAL 7035

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