

UCS 125-87-F-GD-RPI 7035 - Universal housings



1019724

<https://www.phoenixcontact.com/us/products/1019724>

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Complete housing for printed-circuit boards. Includes housing half shells, 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

- 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 | 1019724 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AC03 |
| Product key | ACFCAA |
| GTIN | 4055626507538 |
| Weight per piece (including packing) | 312.8 g |
| Weight per piece (excluding packing) | 312.8 g |
| Customs tariff number | 84879090 |
| Country of origin | DE |

Technical data

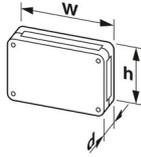
Notes

| | |
|---------|---|
| General | The housing can be opened a maximum of 10 times. |
| General | 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 |
| Product family | UCS 125-87-F |
| Type | Flat design (GD), RPI |
| Housing type | Universal housings |
| Ventilation openings present | no |
| Housing series | UCS |

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

Environmental and real-life conditions

Power dissipation single housing for 20 °C

| | |
|---------------------|----------|
| Ambient temperature | 20 °C |
| Reduction factor | 1 |
| Mounting position | vertical |

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| | |
|-------------------|-------|
| 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 |
|---------------|------------------------|

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| | |
|----------------|-------|
| 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 mm ² |
| 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 Nm-1.4 Nm / 500 rpm-1000 rpm Mounting the PCB: 0.4 Nm-0.5 Nm / 500 rpm-1000 rpm |

Packaging specifications

| | |
|-------------------|---------------|
| Type of packaging | Box packaging |
|-------------------|---------------|

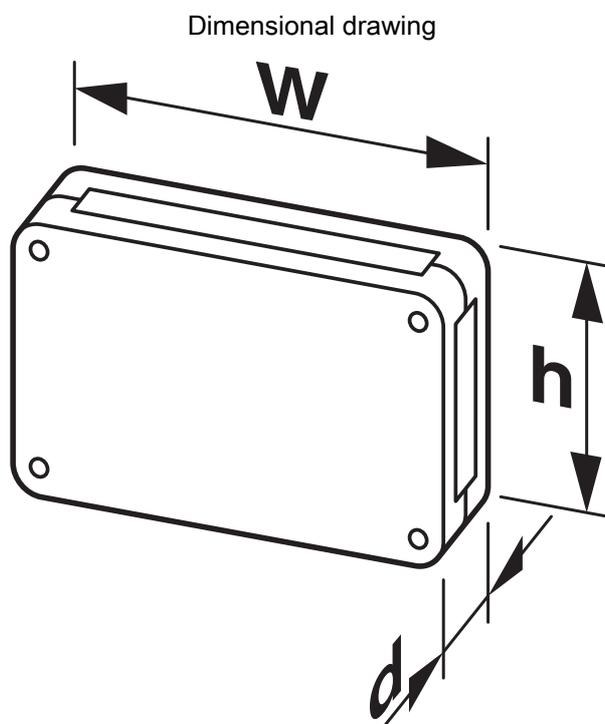
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Drawings



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/1019724>



UL Recognized

Approval ID: FILE E 240868

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27182702 |
| ECLASS-13.0 | 27190603 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | 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

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

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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

UCS DIN 125-F 7035 - DIN rail adapter

2203838

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

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

2202316

<https://www.phoenixcontact.com/us/products/2202316>



Multiple light guides with glare protection, passive, rigid, 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/us/products/2202317>



Multiple light guides with glare protection, 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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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, 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/us/products/2202319>



Multiple light guides with glare protection, 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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UCS DIN 125-F 9005 - DIN rail adapter

1174338

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