

# UCS 125-87-F-GD-D2,4-TRG 7035 - Universal housing with touch display



1246286

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Complete housing for PCBs, can be positioned flexibly, adhesive pads for attaching the PCB, with turquoise blue corner inserts; touch display integrated in housing half-shell, resistive touch technology, 2.4 inch, resolution: 320 x 240 pixels, interface: SPI

## Your advantages

- Housing system for visualization and operation in the field
- Time-saving assembly of ready-to-use modules with Plug and Play
- Positioning of the display using the configurator
- 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	1246286
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	NULL
Product key	ACFCAD
GTIN	4063151346997
Weight per piece (including packing)	339 g
Weight per piece (excluding packing)	33.4 g
Customs tariff number	84879090
Country of origin	DE

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## Technical data

### Notes

General	Refer to the data sheet for the range in the download area.
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
Housing series	UCS
Product family	UCS 125-87
Type	Flat design (GD), with 2.4" touch display
Housing type	Universal housings
Ventilation openings present	no

### Display

Display type	Color display TFT
Diagonal	(Display) 2.4 in. / 6.9 cm (Display)
Screen resolution	320 x 240 Pixel(s)
Display formats	3:4
Display lighting type	LED, white
Contrast ratio	500:1
Controller	ST7789V

### Interfaces

Interface	4-wire SPI half duplex
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### Dimensions

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

### PCB design

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PCB thickness	0.8 mm ... 3 mm
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## Material specifications

Color (Housing)	light grey (RAL 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

### 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

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Specification	VW PV 3.10.7:2005-02
Result	Test passed

## Ambient conditions

Max. IP code to attain	IP40
Ambient temperature (operation)	-20 °C ... 70 °C (depending on power dissipation)
Ambient temperature (storage/transport)	-30 °C ... 55 °C
Ambient temperature (assembly)	-5 °C ... 70 °C
Relative humidity (storage/transport)	80 %

## PCB data

Number of PCB holders	1
Type of PCB mount	Bolt mounting
Total PCB surface	6000 mm <sup>2</sup>
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 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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## Classifications

### ECLASS

ECLASS-11.0	27182702
ECLASS-13.0	27190204

### ETIM

ETIM 9.0	EC001031
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### UNSPSC

UNSPSC 21.0	31261500
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