

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
Туре	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

### **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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Test for substances that would hinder coating with paint or varnish

Housing   light grey (RAL 7035)	PCB thickness	0.8 mm 3 mm
mability rating according to UL 94         V0           coording to IEC 60112         225           titing material         PC           ce characteristics         untreated           nemtal and real-life conditions           at est           fication         IEC 60068-2-6:2007-12           enercy         10 - 150 - 10 Hz           p speed         1 octave/min           tude         0.15 mm (10 Hz 58.1 Hz)           eration         2g (58.1 Hz 150 Hz)           duration per axis         2.5 h           directions         X-, Y- and Z-axis           re test         16cation           ine test         IEC 60695-2-11:2014-02           ereature         850 °C           of exposure         30 s           stability / ball thrust test         IEC 60695-10-2:2014-02           fication         IEC 60695-10-2:2014-02           ereature         125 °C           duration         IEC 60068-2-31:2008-05           t of fall         50 cm           enercy         50           fication         IEC 60068-2-27:2008-02           shape         Half-sine           eration         15 g           cutration         11 ms<	aterial specifications	
225	Color (Housing)	light grey (RAL 7035)
PC	Flammability rating according to UL 94	V0
tec characteristics untreated PC   Intental and real-life conditions  Intest  Intest  Intest  Intention	CTI according to IEC 60112	225
PC	Insulating material	PC
Intental and real-life conditions   IEC 80088-2-6:2007-12   IEC 80088-2-8:2008-05   IEC 80088-2-31:2008-05   IEC 80088-2-31:2008-05   IEC 80088-2-37:2008-02   IEC 80088-2-37:2008-03   IEC 80088-2-37:20	Surface characteristics	untreated
Itest	Housing material	PC
IEC 60068-2-6:2007-12	nvironmental and real-life conditions	
rency 10 - 150 - 10 Hz p speed 1 ctave/min tude 0.15 mm (10 Hz 58.1 Hz) eration 2g (58.1 Hz 150 Hz) furation per axis  furation per axis  re test  fication IEC 60695-2-11:2014-02 erature 850 °C of exposure 30 s  stability / ball thrust test fication IEC 60695-10-2:2014-02 erature 125 °C duration 1h 20 N  cal strength / tumbling barrel fication IEC 60068-2-31:2008-05 to fall 50 cm fication IEC 60068-2-27:2008-02 shape Half-sine eration 15g c duration 15g	Vibration test	
p speed 1 octave/min tude 0.15 mm (10 Hz 58.1 Hz) eration 2g (58.1 Hz 150 Hz) duration per axis 2.5 h  directions X-, Y- and Z-axis  re test fication IEC 60695-2-11:2014-02 erature 850 °C of exposure 30 s stability / ball thrust test fication IEC 60695-10-2:2014-02 erature 125 °C duration 1h 20 N  cal strength / tumbling barrel fication IEC 60068-2-31:2008-05 to fall 50 cm  fication IEC 60068-2-27:2008-02 shape Half-sine eration 15g kduration 11 ms er of shocks per direction 3	Specification	IEC 60068-2-6:2007-12
p speed 1 octave/min tude 0.15 mm (10 Hz 58.1 Hz) eration 2g (58.1 Hz 150 Hz) duration per axis 2.5 h  directions X-, Y- and Z-axis  re test fication IEC 60695-2-11:2014-02 erature 850 °C of exposure 30 s stability / ball thrust test fication IEC 60695-10-2:2014-02 erature 125 °C duration 1h 20 N  cal strength / tumbling barrel fication IEC 60068-2-31:2008-05 to fall 50 cm  fication IEC 60068-2-27:2008-02 shape Half-sine eration 15g kduration 11 ms er of shocks per direction 3	Frequency	10 - 150 - 10 Hz
geration     2g (58.1 Hz 150 Hz)       duration per axis     2.5 h       directions     X-, Y- and Z-axis       re test     IEC 60695-2-11:2014-02       gerature     850 °C       of exposure     30 s       stability / ball thrust test     IEC 60695-10-2:2014-02       gerature     125 °C       duration     1 h       20 N     cal strength / tumbling barrel       fication     IEC 60068-2-31:2008-05       to of fall     50 cm       genery     50       fication     IEC 60068-2-27:2008-02       shape     Half-sine       geration     15g       x duration     11 ms       per of shocks per direction     3	Sweep speed	1 octave/min
2.5 h	Amplitude	0.15 mm (10 Hz 58.1 Hz)
Section   Sect	Acceleration	2g (58.1 Hz 150 Hz)
IEC 60695-2-11:2014-02	Test duration per axis	2.5 h
IEC 60695-2-11:2014-02	Test directions	X-, Y- and Z-axis
erature 850 °C of exposure 30 s stability / ball thrust test fication IEC 60695-10-2:2014-02 erature 125 °C duration 1 h 20 N  cal strength / tumbling barrel fication IEC 60068-2-31:2008-05 et of fall 50 cm fication IEC 60068-2-27:2008-02 fication IEC 60068-2-27:2008-02 shape Half-sine eration 15g cduration 11 ms er of shocks per direction 3	Glow-wire test	
erature 850 °C of exposure 30 s stability / ball thrust test fication IEC 60695-10-2:2014-02 erature 125 °C duration 1 h 20 N  cal strength / tumbling barrel fication IEC 60068-2-31:2008-05 et of fall 50 cm fication IEC 60068-2-27:2008-02 fication IEC 60068-2-27:2008-02 shape Half-sine eration 15g cduration 11 ms er of shocks per direction 3	Specification	IEC 60695-2-11:2014-02
stability / ball thrust test  fication IEC 60695-10-2:2014-02  erature 125 °C  duration 1 h 20 N  cal strength / tumbling barrel  fication IEC 60068-2-31:2008-05  to fall 50 cm  ency 50  fication IEC 60068-2-27:2008-02  shape Half-sine  eration 15g  cduration 11 ms  er of shocks per direction 3	Temperature	850 °C
IEC 60695-10-2:2014-02	Time of exposure	30 s
terature 125 °C duration 1 h 20 N  cal strength / tumbling barrel fication IEC 60068-2-31:2008-05 at of fall 50 cm  fication IEC 60068-2-27:2008-02 shape Half-sine eration 15g at duration 11 ms er of shocks per direction 3	Thermal stability / ball thrust test	
duration 1 h 20 N  cal strength / tumbling barrel  fication IEC 60068-2-31:2008-05  at of fall 50 cm  fication IEC 60068-2-27:2008-02  shape Half-sine eration 15g  at duration 11 ms  er of shocks per direction 3	Specification	IEC 60695-10-2:2014-02
20 N	Temperature	125 °C
cal strength / tumbling barrel  fication IEC 60068-2-31:2008-05  it of fall 50 cm  fication IEC 60068-2-27:2008-02  shape Half-sine eration 15g  duration 11 ms  ser of shocks per direction 3	Test duration	1 h
fication       IEC 60068-2-31:2008-05         at of fall       50 cm         fication       IEC 60068-2-27:2008-02         shape       Half-sine         eration       15g         at duration       11 ms         ser of shocks per direction       3	Force	20 N
t of fall 50 cm  50  fication IEC 60068-2-27:2008-02 shape Half-sine eration 15g c duration 11 ms her of shocks per direction 3	Mechanical strength / tumbling barrel	
fication IEC 60068-2-27:2008-02 shape Half-sine eration 15g t duration 11 ms er of shocks per direction 3	Specification	IEC 60068-2-31:2008-05
fication IEC 60068-2-27:2008-02 shape Half-sine eration 15g c duration 11 ms per of shocks per direction 3	Height of fall	50 cm
shape Half-sine eration 15g c duration 11 ms er of shocks per direction 3	Frequency	50
shape Half-sine eration 15g c duration 11 ms er of shocks per direction 3	Shocks	
eration 15g k duration 11 ms er of shocks per direction 3	Specification	IEC 60068-2-27:2008-02
duration 11 ms ser of shocks per direction 3	Pulse shape	Half-sine
per of shocks per direction 3	Acceleration	15g
	Shock duration	11 ms
	Number of shocks per direction	3
lirections X-, Y- and Z-axis (pos. and neg.)	Number of shocks per direction Test directions	3 X-, Y- and Z-axis (pos. and neg.)



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Type of packaging

Specification	VW PV 3.10.7:2005-02
Result	Test passed
mbient 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 %
B 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).
unting	
Mounting position	any
Tightening torque / speed	Screw connection between housing halves: 1.2 Nm-1.4 Nm / 500 rpm-1000 rpm

Box packaging



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## Classifications

### **ECLASS**

	ECLASS-11.0	27182702	
	ECLASS-13.0	27190204	
E	ETIM		
	ETIM 9.0	EC001031	
UNSPSC			
	UNSPSC 21.0	31261500	

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