

8" Touch Panel

DOM-D-TS-1 | 8" 800×1280 IPS · 5-Point Touch | Embedded Web Browser | Domatic Bus

The 8" Touch Panel is an in-wall control surface for the Domatic Bus. Built on the field-proven Portworld YC-SM08P platform, it connects to the Domatic Bus over a single 2-wire CL2 pair – power and communication arrive together, with no separate network run or power supply at the wall box.

Domatic packages the panel as a dedicated embedded web browser: it presents the user interfaces of applications running on the Domatic PowerHub – room control, scene selection, media and intercom front-ends, and more. A quad-core RK3566 SoC drives an 8" 800×1280 IPS display with 5-point capacitive touch. Per-device behavior and the application it presents are provisioned and managed in software via the PowerHub.



Key Features

- ✓ Single 2-wire CL2 input from the Domatic Bus – power and PowerHub communication on the same pair
- ✓ No separate network drop and no local power supply required at the wall box
- ✓ Dedicated embedded web browser – presents the UI of applications running on the Domatic PowerHub
- ✓ 8" 800×1280 IPS display, 300 nits, with 5-point capacitive multi-touch
- ✓ Quad-core ARM Cortex-A55 (Rockchip RK3566) up to 1.8 GHz
- ✓ 2 GB RAM / 16 GB eMMC storage, expandable via microSD (TF) card
- ✓ Bluetooth 4.0 on board for auxiliary connectivity
- ✓ Optional RGB indicator LEDs on both sides of the panel
- ✓ Fits standard 86-type / US single-gang in-wall boxes
- ✓ Provisioned and managed in software via the Domatic PowerHub

Display & Touch

Size	8" diagonal
Resolution	800 × 1280 (portrait)
Panel Type	IPS LCD
Brightness	300 nits
Touch	Capacitive, 5-point multi-touch
Cover	Glass touch panel

Compute & Software

SoC	Rockchip RK3566 – quad-core ARM Cortex-A55, up to 1.8 GHz
RAM	2 GB
Storage	16 GB eMMC
Expansion	microSD (TF) card slot, 1×
Software	Dedicated embedded web browser appliance
Presents	User interfaces of applications hosted on the Domatic PowerHub

Electrical Specifications

Caution This unit is powered and networked exclusively from the Domatic Bus. Do **not** attempt to supply any other power input.

Input	Domatic Bus – single 2-wire CL2 pair
Input Voltage	Nominal 48 VDC (Domatic Bus)
Communication	Domatic Bus (IEEE 1901 HD-PLC over the same pair as power)
Power Source	Domatic PowerHub output port
Typical Input Power	~10 W (display on, typical use)
Max Input Power	≤ 20 W
Power Classification	Within the 100 W NEC Class 2 per-port budget

Wireless & Connectivity

Bluetooth	Bluetooth 4.0
Primary Network	Domatic Bus (Bluetooth is auxiliary)

Note The network uplink is provided by the Domatic Bus. On-board Bluetooth remains available for auxiliary or third-party connectivity.

I/O & Ports

Interface	Detail
Domatic Bus Input	2-wire CL2 – 48 VDC + Domatic Bus protocol. Mates with a PowerHub output port.
microSD (TF)	Removable storage, 1×
Indicator LEDs	Optional RGB LEDs on both sides of the panel

Audio & Media

Speaker	Built-in, 1 W
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Video Decode	1080p – MP4, MKV, MOV, AVI, WMV, ASF, 3GP, RM/RMVB, VOB
Audio Decode	MP3, AAC, WMA, WAV, FLAC, OGG

Mechanical Specifications

Form Factor	In-wall touch panel
Mounting	86-type / US single-gang in-wall box
Housing	Plastic enclosure with glass touch panel
Color	Silver or black
Height	200 mm (7.87")
Width	124.59 mm (4.91")
Depth – Face	11.6 mm (0.46") front protrusion from wall
Depth – Total	37.7 mm (1.48") including in-wall body
Weight	350 g (0.77 lb)

Environmental Specifications

Operating Temperature	-5 °C to 70 °C (base unit rating)
Installation	Indoor, in-wall

Standards & Compliance

CE	EU Radio Equipment Directive (RED) 2014/53/EU (Cert. STS2408310RE)
Safety	EN IEC 62368-1:2020+A11:2020 (RED Art. 3.1a)
RF Exposure	EN IEC 62311:2020 (RED Art. 3.1a)
EMC	EN 301 489-1/-17, EN 55032, EN 55035, EN IEC 61000-3-2/-3-3 (RED Art. 3.1b)
Radio	EN 300 328 V2.2.2 – 2.4 GHz Bluetooth (RED Art. 3.2)
RoHS	Compliant – EU Directive 2011/65/EU and amendment (EU) 2015/863 (Cert. C-STSGZ2405291001E)
Power Source	NEC Class 2 from the PowerHub output

System Requirements

The 8" Touch Panel requires a Domatic PowerHub as the bus controller. The PowerHub provides power (48 VDC, up to 100 W per port) and network connectivity over standard CL2 cable. Only Domatic Bus-compliant devices should be connected to the same bus. Application content and per-device behavior are provisioned in software via the PowerHub.

Ordering Information

<i>Model Number</i>	<i>Description</i>
DOM-D-TS-1	8" Touch Panel – 800×1280 IPS, 5-point touch, embedded web browser, Domatic Bus