VTAP

DATASHEET
VTAP100-PRO-EXP1

VTAP100 PRO I/O expansion board

for VTAP100-PRO NFC readers

A flexible I/O expansion unit to transmit input and output signals between a VTAP100 PRO reader and connected devices, such as actuators and sensors.

Provides two relay outputs, one input and the capability to drive external serial RGB LEDs.

12V-powered in convenient panel-mountable case complete with cable and connectors.

Key features and benefits

- Extends the interface capabilities of the VTAP100 PRO range of NFC readers.
- 12V DC powered to suit a wide range of connected devices.
- Switch loads up to 5A @ 50V AC through two independently controlled relay outputs
- Plug-and-play operation, auto-detected by VTAP100 PRO reader when connected.
- Built in driver for up to 255 serial RGB LEDs
- Cable included for connection to VTAP PRO

Why choose VTAP technology?

VTAP technology is available with a wide range of form-factors and interfaces, offering unrivalled capabilities and features.

VTAP readers support all types of NFC mobile wallet passes and credentials, with extended support for many common RFID/NFC cards and tags.

It is easy to integrate a VTAP reader into any system — platform independent, with no SDK required. And it is simple to configure, deploy, use and update any VTAP reader in the field. Connectivity options include a wide range of host interfaces and protocols.

The VTAP Cloud option adds remote configuration and a unique 'taps to apps' gateway on selected models.

All models are certified for Apple VAS, Google Smart Tap and Apple ECP2/Access Control/Transit.

Why choose Dot Origin?

Dot Origin is a trusted partner of Apple and Google, licensed and certified to deliver NFC reader hardware that supports their Wallet programs

We are also long-established partners of NXP, which enables us to support many RFID and NFC technologies such as MIFARE DESFire, NTAG and MIFARE2Go.

We have an extensive partner ecosystem of NFC Wallet card and pass providers, cloud application providers, resellers, installers and distributors.

We offer comprehensive service and support including dedicated consulting and engineering services.

Our VTAP products are engineered in the UK and available in many form-factors as finished products or embedded modules.

Learn more about the VTAP advantage and VTAP readers at **https://vtapnfc.com**.

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DOT ORIGIN

VTAP100 PRO I/O expansion specification

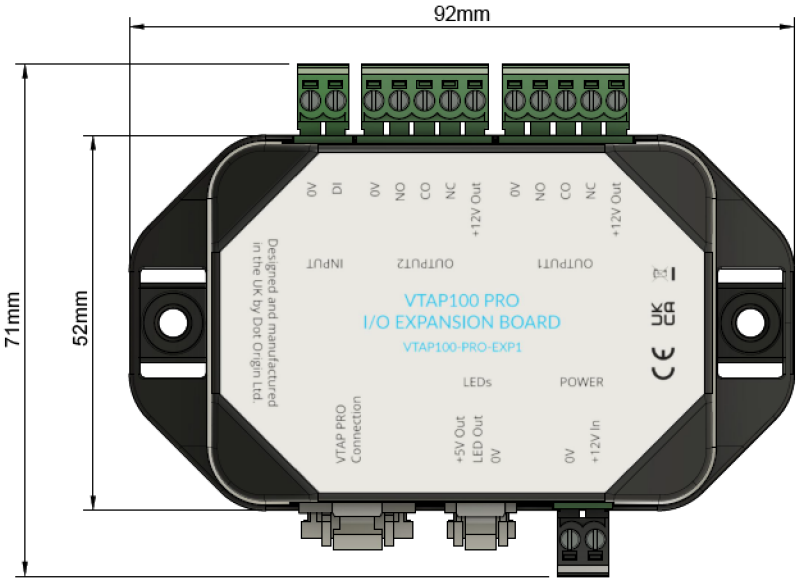
Physical characteristics	VTAP100-PRO-EXP1: VTAP100 PRO I/O expansion board
Dimensions	92mm x 52mm x 15mm (3.65in x 2.05in x 0.60in)
Mounting options	2 x mounting holes
Housing options	
Cable	0.3m cable to connect VTAP100-PRO-EXP1 to VTAP100-PRO reader supplied
Weight	64g (2.3oz)
Operating conditions	-25 to +70°C (-13 to 158°F); 0 to 95% RH non-condensing; designed for indoor use
Power	
Power supply	9 - 15V DC
Typical power	600mW
Rating	1A max
Input	
Input type	DC low voltage sense
Max voltage range	+/- 30V DC
Output 1 and 2	
Output type	Dry contact changeover relay (NO and NC)
Contact rating	5A @ 50V AC (max)
Serial LED output	
Drive capability	5V DC at up to 1.5A, max 255 serial RGB LEDs

Compliance/Certification

UKCA, CE , RoHS; 24-month limited hardware warranty

VTAP100-PRO-EXP1 Technical drawings

VTAP100-PRO-EXP1 Dimensions



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