

Parklio Brain Technical Specifications

Amplifico d.o.o.



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1 Product Description

Parklio Brain enables remote control of access control devices via the Parklio Bluetooth interface. It can be interfaced with a mobile phone or with the Parklio Gateway to enable use from the Parklio CMS. The

Parklio Brain is installed in the access control's solution control panel and interfaces with the existing control board. It features a DIN rails EN 60715 TH35 compatible enclosure allowing the Brain to be mounted on standard DIN rails. The device requires an external 8V – 32V DC, 200mA capable power supply. An external antenna is required, a SMA connector for connecting an external antenna is located on the Parklio Brain PCB. The device can also be used as a generic I/O controller for other devices and is rated for operation in environments with temperatures ranging from -20 °C to +60 °C.

After connecting the device and powering it on a key must be configured via Parklio Connect mobile app.

The packaging includes:

- 1 x Parklio Brain IO board
- 1 x 2.4GHz, IP65 rated antenna with 1m cable
- 1 x 5 pin screw terminal – for IO
- 1 x 2 pin screw terminal – for power

2 Technical Specifications

2.1 General Specifications

Parameter	Value
Input Voltage	8 VDC ~ 32 VDC
DC Current (Typ.)	To be tested
Inrush current	
Working temperature range	-20 °C ~ +60 °C
Working humidity	Up to 90% RH
Operating altitude	1000 m
Dimensions	88.6 mm x 69 mm x 31.25 mm (H x W x D)
Weight	TBD
LED	1 x power LED, 1 x status LED
Wireless Connectivity	BLE
Over-the-Air upgrades	Yes
Antenna interface	External 2.4GHz antenna with SMA connector
Color	Light grey and black
Max. supported connections	1 user may be connected mountainously
Battery backup	Yes, for clock only
Standards	RoHS compliant DIN EN 60715 TH35, DIN VDE 0470-1, DIN 43880 unit 1, REACH compliant, VBG 4, IEC 529
Regulatory standards	EN60950-1:2006 + A1:2010 + A11:2009 + A12:2011 EN 300 328 EN 300 440 EN 301 489 - 1 EN 301 489 - 3 EN 301 489 - 17 EN 55024 EN 55032 EN 61000-6-3 EN 61000-3-2 EN 61000-3-3 EN 61000-6-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8

2.2 BLE Performance

Parameter	Value
Transmission power	4 dBm
RF Power Accuracy	±2.5 dB
Receiver sensitivity	-96 dBm
Max. simultaneous connections	1
Frequency range	2402 MHz ~ 2480 MHz
Range	50 m in open space with provided antenna
Antenna	External antenna
Adv. interval	100 ms

2.3 Digital IO Specifications

Parameter	Value
Number of I/O	4*
Input impedance	~1MΩ 1nF
IO Type	Configurable: <ul style="list-style-type: none"> • Open drain • Active pull up (2mA source) • Digital Input
Protection	Polyfuse 125mA ESD Protected
Max. sink current	100mA DC
Pull up	2mA @ Power supply voltage
Max. input voltage	30 VDC

2.4 Relay Output Specifications

Parameter	Value
Number of outputs	1*
Output type	SPDT (COM, N.O., N.C.)
Current rating	8A
Voltage rating	250VAC

* By default, the Parklio Brain does not include a relay output and includes only one digital IO

2.5 Dimensions

