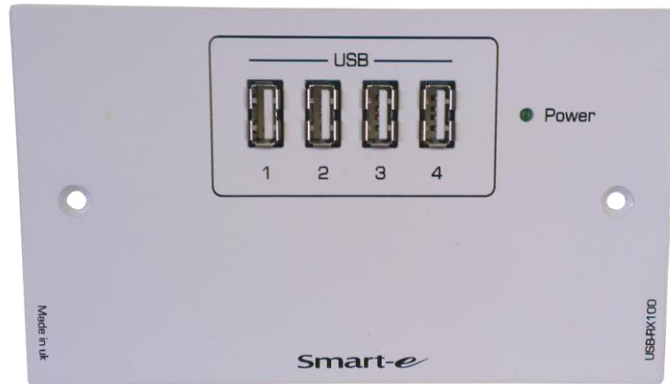# USB
USB V2.0
12Mbps
Cat 6

Comprehensive professional USB receiver wall plate with 4 port hub for 50m CAT 6 distribution in Commercial, Education and Residential use

- Uses CAT 6/6A STP cable
- Double gang Wall plate receiver
- Full speed 12 Mbits/s
- Extends up to 50m CAT cable
- Cream/Black colours available

- Integral 4-port hub
- 500mA output current per port
- 5V Charging ports
- Wall/floor plate configuration
- POC (remote powering wall plate)

Compact receiver for range of Smart-e USB matrices capable of extending USB signals up to 50m of Cat 6 cable
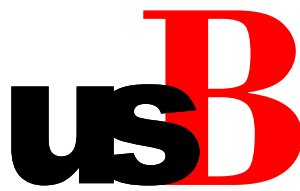
The **USB-RX100** is a flexible and cost effective wall plate USB receiver compatible with USB matrices USB-8x8, USB-16x8 and USB-24x8. The unit is supplied as a convenient UK size double gang transmitter wall/floor plate available in a range of colours.

The **USB-RX100** connects to the matrix via a signal Cat 6 cable and provides the interface between the structured cable and USB peripherals. The receiver presents the interconnection as 4 x USB type A connectors. The receiver contains an integral USB hub which allows for up to 4 devices to be connected and function simultaneously.

Peripherals connected to the **USB-RX100** can take their power through the USB connector via the 5V charging pins. This 5V feed can also be used to charge the same device, with each port providing 500mA of charging current. The receiver is powered through the Cat 6 cable and can accept a range of input voltage levels from 6 to 28V allowing it to cope with loses and voltage drops owing to varying cable lengths and charging currents.

The **USB-RX100** is presented as a slim and shallow wall or floor plate with a single metal face plate. As standard the plate dimensions conform to a UK double gang electrical socket and therefore fits easily available 25mm deep flush and surface pattresses. Alternative plate sizes, construction or colours can be accommodated as requested.

The **USB-RX100** is ideal for HID (Human Interface Devices) but can be used for many other peripherals including memory sticks, web camera and interactive touch screens. Owing to their compact size and low cost the USB solutions are perfect for many applications including command and control centres together with meeting/board/huddle room requirements.

USB V2.0 12Mbps Cat 6

Product: USB-RX100 USB RX Wall Plate

TECHNICAL SPECIFICATION

USB

Connectors	USB type A connector
Connector number	4
Signal type	USB – half duplex
Standards	USB 2.0
Maximum data rate	12 Mbits/s
USB signal levels	0 - 3V3 logic zero or one
Impedance	100R

Cat cable connectivity

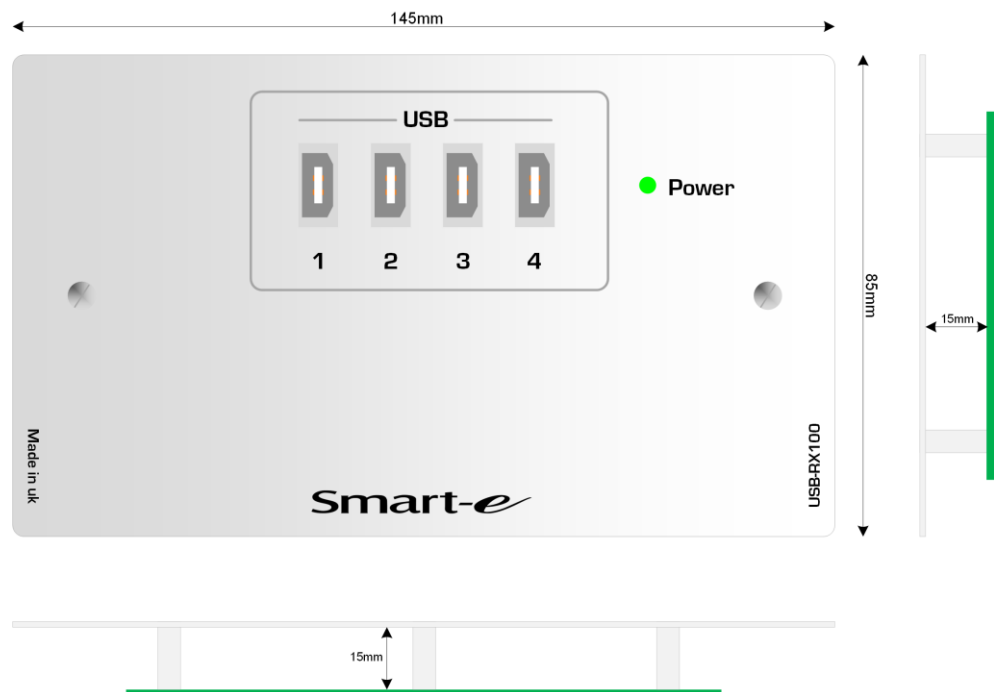|	
Number of cables	1 x Cat 6/6A screened twisted pair cables
Connectors	1 x female screened RJ45 connectors per unit
Termination standard	TIA/EIA T568B
Cable requirements	Solid conductor, 24 AWG or better
Cable recommendations	400 MHz bandwidth STP (shielded twisted pair)
Transmission distance	50m shielded twisted pair STP CAT 6 or CAT 6A

Mechanics

UK double gang plate	145 x 85 x 20mm
Depth	20mm including connectors
Weight	0.5Kg

Power & Environment

DC Voltage	6-28V (nominal 24V) through cable
DC connector	2.1mm jack with screw fitting
Power consumption	25W (max charging)/1.5W (standby)
Operating temperature	0-40 degrees C
Storage temperature	-20-60 degrees C
Relative humidity	20-90%
MTBF	30,000 hours

PANEL DRAWING