

Pin connections of trackballs

Ver. 1.0

All trackball types GKxx-xxxx and GSxx-xxxx, and all keyboards with trackball are based on Pxx-xxxxxx modules.

For info on pinning of trackball, please check product label.

Note: Due to the fact that a trackball has several parts and sometimes PCB and other parts are replaced and changed, it can be possible that the typenumber on the label is not correct and does not correspond with the product. In this case a more profound study of the pcb is required to know the exact type used.

Type number : Pxx-xXxxxxx f.i. P38-540420

└ P or K (ball diameter)
└ X (output protocol)

0 = Phase quadrature output
4 = Straight PS/2 output
5 = Straight USB output
6 = Combo (PS/2, USB)
7 = Multiprotocol (PS/2, RS232)
A = Straight RS232 output

Connector 1 = 10 pin JST PH series 2,0 mm pitch

Connector 2 = 4 pin JST PH series 2,0 mm pitch

Pin PS/2	Connector 1 PS/2 versions	Connector 1 Combo PS/2 mode	Colour code PS/2 cable
Trackball Module Part number	P16-x4xxxx K34-x4xxxx P38-x4xxxx	P25-x6xxxx P50-x6xxxx P75-x6xxxx	
1	(X1)	(X1)	-
2	(X2)	(X2)	-
3	(Y1)	(Y1)	-
4	(Y2)	(Y2)	-
5	-	-	(Blue)
6	-	-	(Brown)
7	Vcc	Vcc	Orange
8	DATA	Data (/ D-)	Black
9	CLK	CLK (/D+)	Yellow
10	GND	GND	Red

Pin USB	Connector 1 USB versions	Connector 1 Combo USB mode	Colour code USB cable
Trackball Module Part number	P38-x5xxxx	P25-x6xxxx P50-x6xxxx P75-x6xxxx	
1	(X1)	(X1)	-
2	(X2)	(X2)	-
3	(Y1)	(Y1)	-
4	(Y2)	(Y2)	-
5	-	-	-
6	-	-	-
7	Vcc	Vcc	Red
8	D-	(Data /) D-	White
9	D+	(CLK /) D+	Green
10	GND	GND	Black

Pin RS232	Connector 1 RS232 versions
Trackball Module Part number	P38-xAxxxx P50-xAxxxx
1	TX
2	RX
3	DTR
4	RTS
5	GND
6	-
7	DSR
8	-
9	-
10	-

Pin Multi (*)	Connector 1 Multi RS232 mode	Connector 1 Multi PS/2 mode	Colour code PS/2 cable + Adaptor
Trackball Module Partnumber	P50-x7xxxx P75-x7xxxx	P50-x7xxxx P75-x7xxxx	
1	TX	-	Brown
2	RX	-	Blue
3	DTR	Clock	Yellow
4	RTS	+5V	Orange
5	GND	GND	Red
6	-	Data	Black
7	-	-	-
8	-	-	-
9	-	-	-
10	-	-	-

Pin Quad	Connector 1 Quad versions
Trackball Module Partnumber	P38-x0xxxx P50-x0xxxx P75-x0xxxx
1	X1
2	X2
3	Y1
4	Y2
5	-
6	-
7	Vcc
8	-
9	-
10	GND

Pin Switch	Connector 2 Switch Input	Colour code switch cable
Trackball Module Part number	All protocol types	IC040035
1	Left Button	Red
2	Middle Button	Orange
3	Right button	White
4	GND (common)	Black

Note :

1) (*) The multiprotocol version is an end of life product and the table is for information use only. Newer products don't contain any multiprotocol version modules.

2) For RS232 cables there is no standard colour code for cables.

Avisum Pty Ltd, 2A Angas Street, Meadowbank, NSW 2114 Australia

Phone: +61 2 9809 5944 Fax: +61 2 9809 5264

Email: sales@avisum.com.au Web: www.avisum.com.au