

ADB COMMANDS

ADB Features Station and UltraSlate Products

ADB unit powers up as a mouse and the driver switches to tablet mode when "talk r2" is received (units released before 7/1/98 switch on" talk r1"). Inc run at 1000 lpi with extended data enabled.

ADB Formats

The unit powers up as both a mouse and tablet. Only one of the two devices is active at any one time. The mouse is the default. To change over to the tablet, you must issue a (talk reg 1 pre July 98 firmware) and reg 2 (July 98 firmware) to address four or the current tablet address.

ADDRESS 3 REG 0 MOUSE FORMAT

BYTE	В	В6	B5	B4	В3	B2	B1	В0
1	TIP	DY6	DY5	DY4	DY3	DY2	DY1	DY0
2	1	DX6	DX5	DX4	DX3	DX2	DX1	DX0

ADDRESS 4 REG 0 TABLET FORMAT

BYTE	B7	В6	B5	B4	В3	B2	B1	В0
1	PROX	Y14	Y13	Y12	Y11	Y10	Y9	Y8
2	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
3	X15	X14	X13	X12	X11	X10	X9	X8
4	X7	X6	X5	X4	X3	X2	X1	X0
5	00=TILT 01=HIGI 10=PRS 11= SPE DATA	HT SURE	BD	В3	B2	B1	В0	P8
6	P7 XTILT =0 YTILT =1 H7	P6 T6 H6 SP2	P5 T5 H5 SP1	P4 T4 H4 SP0	P3 T3 H3 TYP E3	P2 T2 H2 TYPE2	P1 T1 H1 TYPE1	P0 T0 H0 TYPE0



	SP3					
7IF ENABL ED	FOR TH	ATA AS N ESE TWO A AT 100 LECTS AL	BYTES LPI	6		
8 IF ENABL ED						

Pn = Pressure Bits

Tn = Tilt Bits

Bn = Button Bits (16 button)

BD = Buttons Down

Note at 1000 lpi.

Prox 1 = out 0 = in

100 = Unknown else reserved height data

when byte 5

0XXXXXX1

Tilt = 0XXXXXXX

Transducer Type 000 = Pressure Pen 001 =

Mouse 011 16 Button Cursor

PENS OR MOUSE 4 BUTTON CURSOR

BUTTO N	43210	BUTT ON	43210	BUTTO N	43210	BUTT ON	4321 0
Up	00000						
0	10001	0+1	10011	1+3	11010	0+2+3	1110 1
1	10010	0+2	10101	2+3	11100	1+2+3	1111 0
2	10100	0+3	11001	0+1+2	10111	1+2+3 +0	1111 1
3	11000	1+2	10110	0+1+3	11011		



5 BUTTON MOUSE BUTTON CURSOR TBD

BUTTO N	43210
Up	00000
LEFT	XXXX1
RIGHT	XXX1X
FRONT	XX1XX
SIDE	1XXXX
BACK	X1XXX

SPECIAL DATA FIELD

0000	0 0 0 0	PEN
0000	0 0 0 1	reserved
0000	0 0 1 0	4 button cursor (tbd)
0000	0 0 1 1	16 BUTTON CURSOR
0000	0100	UNKNOWN
0000	0 1 0 1	click tip pen
0000	0110	4 button cursor square buttons IBM style
0000	0 1 1 1	5 button mouse
0000	1 X X X	RESERVED
0001	0 0 0 0	REREAD SIZE INFORMATION (NOT ON THIS
		PRODUCT, BUT IF ADB/RS-232 BOX)
		OTHER CODES RESERVED



REGISTER 01 OUTPUT

	B7	B6	B5	B4	В3	B2	B1	В0
1	TYPE							
2	SUBTYPE							
3	REV	-	-	-	-	-	-	-
4	X IN .5 INCH-	-	-	-	-	-	-	X DIM
5	Y IN .5 INCH	-	-	-	-	-	-	-

type = 1 is UltraSlate

type = 2 is ADB box

type = 3 creation station

type = 4 creation station pro, design station pro

SUB TYPE $0 = 4 \times 5$

SUB TYPE $1 = 6 \times 9$

SUB TYPE 2 = 12 x 12

SUB TYPE 3 = 12 x 18

INTERFACE: ADB (APPLE DESKTOP BUS)

BUS ADDRESS: 04

HANDLER ID: 64 (40 HEX)

OPERATING MODE: RUN INCREMENT

IE: On change in data by two count or change in button state, a service request is generated; a data

pair will be available on the next read.

Talk r2

msb	lsb	
byte 1	0 1 x x x y y y	offset
byte 2	0 1 x x x y y y	mouse
byte 3	0 1 x x x y y y	cursor
byte 4	0 1 x x x y y y	pen
byte 5	$0\ 0\ 0\ 0\ 0\ 0\ 0$	reserved
byte 6	$0\ 0\ 0\ 0\ 0\ 0\ 0$	reserved
byte 7	$0\ 0\ 0\ 0\ 0\ 0\ 0$	reserved
byte 8	0000000	reserved