EA 9777-1

USB PROGRAMMER for EA eDIP2040-7

MMS-e **ELECTRONIC ASSEMBLY**

MMS Electronics Ltd

Picture: EA 9777-1USB

TECHNICAL DATA

- **EA 9777-1USB**
- PROGRAMMER WITH USB
- USB CABLE INCLUDED
- EASY INSTALLATION, USB DRIVER IS SUPPLIED
- NO EXTERNAL POWER SUPPLY REQUIRED

- **EA 9777-1V24**
- RS232 SERIAL PORT INTERFACE BOARD (±12V ON RxD AND TxD)
- CABLE KV24-9B WITH 9 PIN D CONNECTOR SUPPLIED
- EXTERNAL POWER SUPPLY REQUIRED +5V/max. 250mA

- **EA 9777-1485**
- INTERFACE BOARD FOR RS-485 2 WIRE CONNECTION
- EXTERNAL POWER SUPPLY REQUIRED +5V/max. 250mA

- **EA 9777-1**
- PCB ONLY FOR MOUNTING OF eDIP240-7

ORDERING INFORMATION

PROGRAMMER WITH USB CABLE FOR PC	EA 9777-1USB
RS-232 SERIAL PORT INTERFACE ±12v ON TxD AND RxD	EA 9777-1V24
INTERFACE BOARD FOR R2-485 2 WIRE CONNECTION	EA 9777-1485
PCB ONLY (FOR MOUNTING OF eDIP240-7)	EA PLAT9777-1

EA 9777-1USB

This programmer can be directly connected to a PC with USB port. No power supply is required. The PCB has a buzzer fitted that can be used for touchkey indication or reset indication. The Power-On-Macro can be dissable with a jumper on the PCB. Supplied is a USB-cable and installation CD for Windows 2000, NT, XP and WIN98.
Installation: connect the programmer to the USB port of the PC. When message 'New hardware found' is displayed search for the USB driver on the CD rom in folder "\DRIVER\EA 9777-1USB". Then follow the instruction on the PC.

Communication with the EA KIT editor.

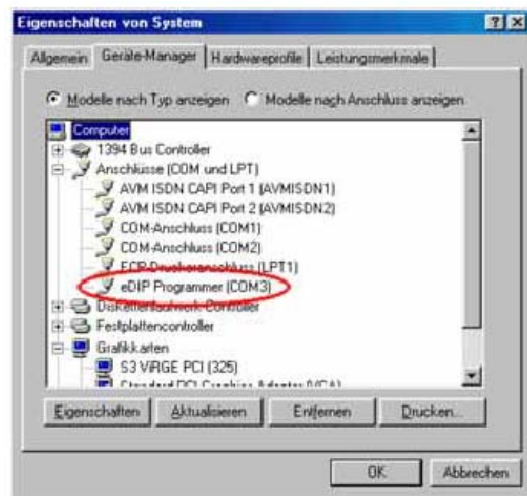To establish communication with the display and programmer the following line is required in windows.

USB: *"Edip Programmer"*

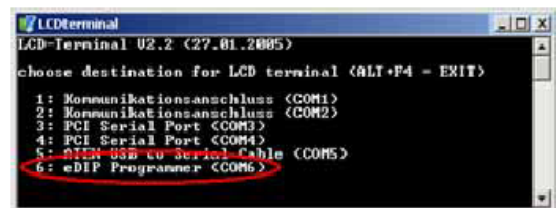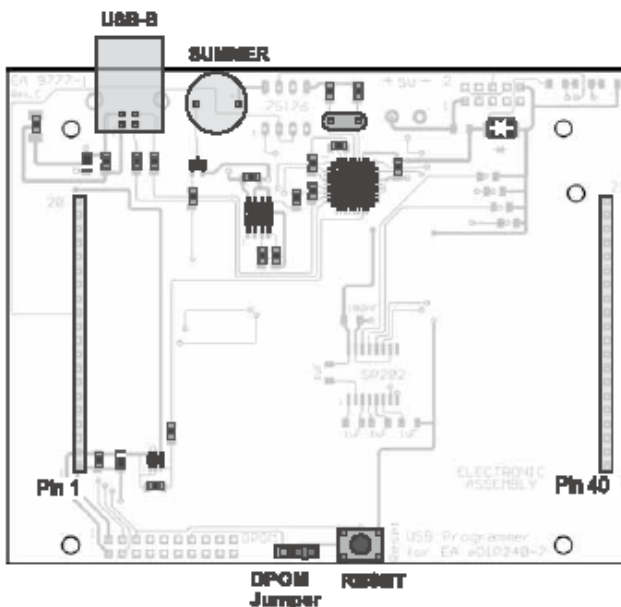In windows set baudrate to:

COMx: 115200

See settings windows device manager.

The programmer is now ready.

Communication with the EA LCD Terminal.

Start the EA LCD Terminal. Select number 6 for eDIP programmer. For Win-98 select the virtual com port that the USB programmer uses. See Windows device manager (as above) . The baud rate is 115.200 baud. Then start communication by Shift-F8
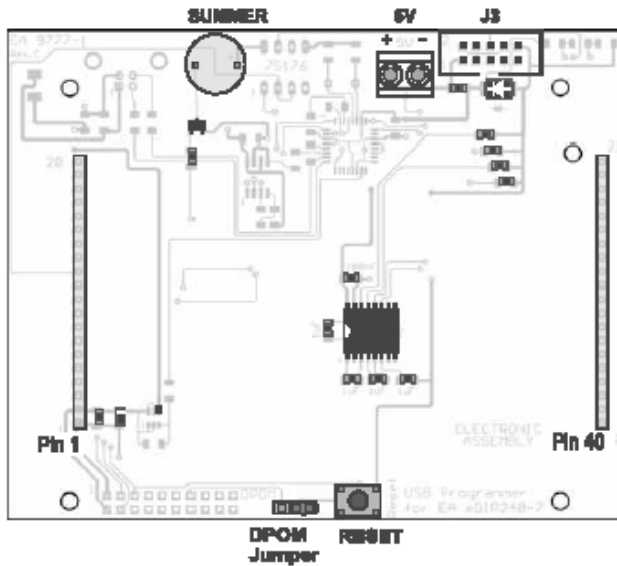
EA 9777-1V24

Board 9777-1v24 has an RS232 interface for direct communication between the ±12V serial port of a PC or PLC. A 9 pin D connector KV24-9B interface cable 1.5 m is supplied.

Two screw terminal are provided for connection of the +5V max. 250mA supply. The baudrate factory settings are 115.200 baud (8 bits, no parity, 1 stop bit). The baud rate can be change by resoldering the onboard program links. The PCB has a buzzer fitted that can be used for touchkey indication or reset indication. The Power-On-Macro can be dissable with a jumper on the PCB.

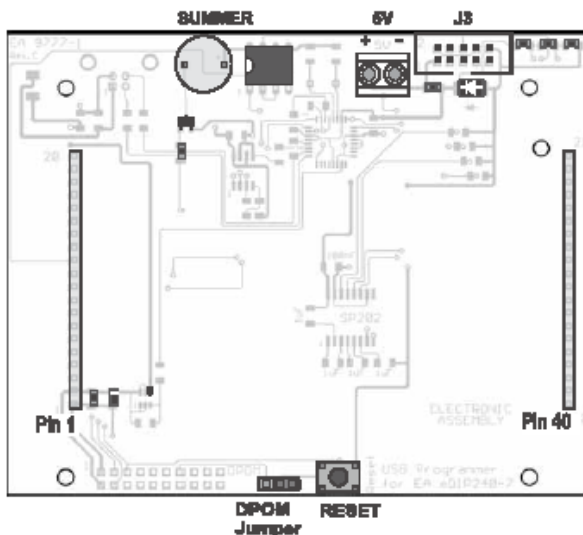| Baudraten			
Baud0	Baud1	Baud2	Datenformat 8,N,1
0	0	0	1200
1	0	0	2400
0	1	0	4800
1	1	0	9600
0	0	1	19200
1	0	1	38400
0	1	1	57600
1	1	1	115200

EA 9777-1V24

RS-232 Connector J3			
Pin	Symbol	In/Out	Function
1	VDD	-	+ 5V Power
2	DCD	-	connected to pin 3,8
3	DSR	-	connected to pin 2,8
4	TxD	Out	Transmit Data
5	CTS	In	Clear To Send
6	RxD	In	Receive Data
7	RTS	Out	Request To Send
8	DTR	-	connected to Pin 2,3
9	NC	-	no connection
10	GND	-	0V Ground

EA 9777-1485

With this board it is possible to connect multiple display EA eDIP240-7 to an RS-485 (2-wire) interface. Two screw terminal are provided for connection of the +5V max. 250mA supply.

The baud rate can be change by resoldering the onboard program links. (see table above). Termination resistors "10k-1k-10k" are soldered over both program links *"termination"* . For further information check the display datasheet EA eDIP240-7.pdf The PCB has a buzzer fitted that can be used for touchkey indication or reset indication.

EA 9777-1485

RS-485 Connector J3		
Pin	Symbol	Function
1	VDD	+ 5V Power
2	-	connected to pin 3,8
3	-	connected to pin 2,8
4	Data+	Transmit / Receive Data+
5	NC	no connection
6	Data-	Transmit / Receive Data-
7	NC	no connection
8	-	connected to pin 2,3
9	NC	no connection
10	GND	0V Ground

EA PLAT 9777-1

For PLAT 9777-1 a blank PCB with no display is supplied. The display can be soldered directly into the PCB or use sockets EA254-20 (2 required).
To mount the display 4 mounting holes (3.2mm) are provided on the PCB. Connection is provided for a 20 pin connector (2.54mm pitch) or a 20 pin ZIFconnector (1,0mm pitch - not supplied).   Use partnumber EA WF100-20S to botton contact of ZIF connector. The mating flex cable 110mm length is EA KF100-20.