EduCALC TECHNICAL NOTES

ADVANCED USER PRODUCTS
Am I Ready For An HP-41 RAM Box,
ADC71A, HP-IL Step Motor Driver, Etc.?

Handheld calculators like the HP-41, HP-71, etc. are friendly and easy enough to use that almost any technical person can master them in a reasonable amount of time. These kinds of handheld products have been around for over a decade and many users have become very familiar with them. These experienced users have become very skilled and knowledgeable with most of their knowledge obtained from sources other than the manufacturer. These users are classified as advanced users. Many of these users are engineers, and certain products are available in the EduCALC catalog that presume a high degree of technical knowledge on the part of the user/customer.

Advanced user porducts may require:

        a. wiring or packaging, or
        b. electronics experience or special information not readily available, or
        c. hard-to-locate programs or hardware, or
        d. extensive knowledge of the handheld community, or
        e. tedious procedures, testing, or experimenting.

EduCALC provides limited support for advanced user products. With over a thousand products in our catalog, it is impossible to have staff experts for every product. Still, it is important to provide our customers with a full product line and we do our best to support our customers in getting the most out of their handheld computers or calculators. Call Technical Support for assistance in dealing with a specific product. **We will assist in any way we can, but we cannot write or debug programs or substitute for reading the owner's manuals—several times if necessary.**

Table 1 lists the products that are considered advanced user products. New users of the related machines are recommended to wait until they are very familiar with their machines before they attempt to use these products. It is suggested that non-manufacturer sources of technical information and books be studied before attempting to use these products. Ordering and learning to use an HP-41CX and and RSU-2 RAM box (#41-670 or 41-7885), for example, would be too much to absorb all at one time.

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Table 1: Advanced User Products

Stock Number	Description	Reason on List
41-374	HP-41 MCODE For Beginners	LP, TP
41-670	32K RAM Box	ET, TP
41-683	Hyper-41	MS, MW
41-684	Hyper-41 Halfnut	MS, MW, TR
41-788	64K RAM Box	ET, NF, TP
41-788S	64K RAM Box with MLDL	ET, LP, NF, TP
41-872	128K RAM Box	ET, NF, TP
41-894	One-Off Programmer	ET, NF, PI
41-895A, B, C, D	HEPAX Module ('RAM Box')	ET, NF, TP
41-RSU-1	16K RAM Box	ET, TP
71-699	CMT 71 Waterproof Case	MW, TS
71-765	Serialplus Case	MW, TS
71-784	CMT 71-PO1 EPROM Programmer	ET, NF, PI
71-789A, B, C	OTP ROMs	EM, ET, TP
82164	HP-IL/RS-232 HP-IL Interface	PI, SI
82165	HP-IL/GPIO Interface	PI, SI
82166C	HP-IL Converter Kit	MW, PP, SI, TS
ADC71	Analog to Digital Interface for HP-IL	MW, NF, SI
CMT-200	HP-41 Data Acquisition Interface EPROM Programmer	NF, MW
IL-615	EPROM Programmer	EM, ET, NF
IL-759	HP-IL/RS-232 AC Powered Interface	NF, SI
IL-760	HP-IL/RS-232 Battery Powered Interface	NF, SI
IL-800	Interloop #210 I/O Interface	MW, PP, SI
IL-800D	Interloop I/O Drive	MW, PP, SI
IL-801	HP-IL Step Motor Driver	MW, PP, SI
IL-801S	Step Motor Source Code	LP
IL-842	HP-IL/RS-232 Battery Powered Interface	NF, SI
OS-510	A/D Interface	ET, MW, NF

Reason for Being on Advanced User Product List:
EM -   EPROM or memory organization/addressing knowledge required.
ET -   Experimenting and testing required.
LP -   Low level machine code programming involved.
MS -   Mechanical disassembly/assembly skills required.
MW -   Mechanical/electrical wiring required.
NF -   New Functions or operating system involved.
PI -   Plug-in, greater chance for crash causing signals being picked up.
PP -   Packaging and/or power supply required.
SI -   System and/or interfacing knowledge required.
TP -   Tedious procedures involved.
TS -   Technical skills of unsoldering/soldering involved.