Micral N Computer

by Francois Gernelle

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At Villetaneuse University, Frensh

Prepared by :

LAHBIB Mohamed Aziz
Zennache Sofiane

Proposed to :

Our dear customers

Further information

Phone	123-456-7890
Website	www.MicralNSociety.com
Email	MicralN.Society@hotmail.com
Address	99 Av. Jean Baptiste Clément, 93430 Villetaneuse

First of all, our Micral N is the first microcomputer on the world scale, we have created this for you to facilitate your tasks and to offer you better working conditions. Our ultimate goal was to achieve a lighter, cheaper and more efficient machine than what exists on the market .

WE PROPOSE SEVERAL FORMS AND THAT IS ACCORDING TO THE VERSIONS. IT CAN BE ONE:

* Automata (lift for example).

* Real-time process control system.

* Microcomputer for business computing.

OUR MICRAL N IS DESIGNED TO BE USEFUL AND CAN BE USED IN MANY AREAS, INCLUDING:

* Industry.

* Management.

* The scientific community.

02 Architecture and main components

The architecture of our Micral N is organized by a kind of spine: the Pluribus.
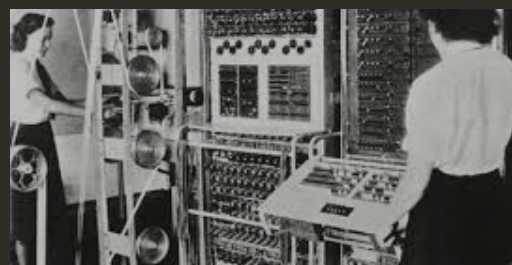

Vue « pluribus » arrière 22 connecteurs

It weighs "only" 8.2kg and contains its components in a 13 cm high, 43 cm long and 44 cm deep white and brown steel case. The latter contains:
--A PLURIBUS with 22 connectors that receives 17 ELECTRONIC BOARDS including the processor board equipped with the INTEL 8008 MICROPROCESSOR 0.5 Mhz (500 kHz) clock frequency, 8 bit architecture and 51 instructions.
-Hard disk: 5 MB.
--Microprocessor with mos memory (less and less energy expensive overheating).
--Technology TTL (Transistoir-transistor-logic), allows to remove the ventilation system and consume less energy.
And its basic consumption is 40W.

03 Functionalities

The main feature of our Micral N has been essentially to automate toll booths on highways as in the previous example. In addition, it was not invented only for this task but quite contrary, it has 51 possible instructions and thus allows us to automate certain tasks. By using the teletype, it is also possible to control machines.

04 *How to use section*

The data can be activated in 2 ways:

First Way:

By pressing the small buttons on the micral facades.

Second Way:

Either through perforated bands, long bands or holes. Indeed, a hole being a 0 and a non hole being a 1. This feature allows to introduce binary data into the machine.

05 *Troubleshooting*

Our micral N has 17 independent boards distributed on the motherboard. When one of its boards malfunctions, it is possible to replace each of them. For this it is very simple, just remove the card with your hand and replace the new one in the same place . If the panel no longer works or the buttons, replace the entire panel. For the processor, it is placed on the motherboard. There's no way to fix it. You have to change the motherboard completely because it is directly grafted on it .

Well, for that, we thought of you and we provide you with everything you need with our Micral N in a suitcase which is the "X1 troubleshooting kit"

Valise " Kit de dépannage X1 " R2E

1ère Valise Kit de Dépannage de Micro-ordinateur !