

MGE PnP Devices Description

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page : 1/4

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Terms and Abbreviations

MGE	MGE UPS SYSTEMS
NUT	Network UPS Tools
Shut	MGE Proprietary serial protocol
UPS	Uninterruptible Power Supply.
U-Talk	MGE Proprietary serial protocol

Table of Contents

1.	PLUG&PLAY MODE DESCRIPTION	3
2.	NOTES FOR NUT	4

1. Plug&Play mode Description

La fonction Plug&Play coté host existe sur un PC équipé du système d'exploitation Linux ou Windows 95 ou d'un système postérieur. Elle permet l'identification d'un périphérique connecté sur le port série d'un PC par l'émission d'une chaîne de caractères spécifique.	<i>Plug&Play feature is available in PC with Linux, Windows95 (and later) operating system.</i> <i>Plug&Play used a predefined handshake to recognize connected device on serial interface of the PC.</i>
Au démarrage, le host émet sur la pin RTS 2 trames à 1, espacées de moins de 100 ms. Ce signal peut être transformé en Break par un dispositif électronique intégré au device (pin RTS rebouclée sur la pin Rx) ou relié directement à un port du microprocesseur. Avec la transformation en Break, 2 framing errors sont provoqués coté UART du device.	<i>At the startup host send on RTS lead 2 strings with all bits set to 1, within 100 ms. This message is converted to a Break by an electronic system or directly connected to a microprocessor input port.</i> <i>After the break conversion, 2 framing errors occur in the UART device.</i>
La chaîne de caractères Plug&Play est ensuite émise par le device en 1200 bauds et en format 7 bits sans parité.	<i>Plug&Play identification string is returned by the device at 1200 bits/s, 7 bits, no parity.</i>
Après l'émission de la chaîne Plug&Play, l'UART du device revient à 2400 bauds en format 8 bits sans parité.	<i>After this, UART device is settuped to 2400 bits/s, 8 bits, no parity.</i>
Le détail exact de la chaîne Plug&Play figure dans le tableau suivant :	<i>Plug&Play identification string is detailed there after :</i>

Field Data (hex)	Field Name	Description
0x28	Begin PnP	"(" indicates PnP IDs will follow
0x01, 0x24	PnP Rev	identifies PnP version 1.0
0x4D, 0x47, 0x45	EISA ID	"MGE" a UPS of MG Electronics company
0x30, 0x30, 0x30, 0x31 or 0x30, 0x30, 0x30, 0x32	Product ID	"0001" indicates Plug&Play interface with Utalk or "0002" indicates Plug&Play interface with SHUT
0x5C, 0x5C	Extension n°1	"\" Extension flag and content : not used.
0x5C, 0x5C	Extension n°2	"\" Extension flag and content : not used.
0x4D, 0x47, 0x45, 0x20, 0x55, 0x50, 0x53, 0x20, 0x77, 0x69, 0x74, 0x68, 0x20, 0x50, 0x6E, 0x50, 0x20, 0x49, 0x4E, 0x54, 0x45, 0x52, 0x46, 0x41, 0x43, 0x45,	Extension n°3 Driver ID	"MGE UPS with PnP INTERFACE". This string is displayed in a windows of Windows95 when the hardware is detected at the first time.
0x32, 0x44	Checksum	"2D" required when one or more extension present.
0x29	End PnP	")" indicates PnP IDs are complete

2. Notes for NUT

- 1) SHUT needs mge-shut driver
- 2) Utalk needs mge-utalk driver
- 3) Some models (as Evolution range) support both SHUT and Utalk. Do prefer SHUT in this case !

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