UMD S143 Initialisation File

This document specifies the UMD S143 ProtoLink Programming Utility initialisation (".INI") file format. Key names are described along with the associated ProtoLink configuration memory address that the key name effects.

1. Introduction

The initialisation file is a text file which holds configuration settings laid out in an easily read format.

One normally edits an initialisation file by way of the UMD S143 software. This document provides information for more experience users who may wish to edit these files directly using a text editor.

2. Format of the INI Files

```
[sectionname]
keyname=value      ; comment
```

eg

```
[Startup]
StartupStr="LI B1 S2\r"    ; Want bar code reader to output to serial port S2
```

where:

[*sectionname*]	*Sectionname* names a *section*. The enclosing brackets ([]) are required, and the left bracket must be in the leftmost column on the screen.
keyname	*Keyname* is the name of the configuration parameter to alter. It can consist of any combination of letters and digits. *Keyname* must be followed immediately by an equals sign.
value	The *value* of a configuration parameter can be an integer in decimal or hexadecimal (ie number ends with a 'h') or a quoted string, depending on the type of entry. Quoted strings may contain escape sequences, eg "\r\n" is a two character carriage return, line feed sequence. eg BlkDev2PostStr="\r\n" , a1m=<CTL-B>"Hello"
; comment	All characters after a semicolon (;) are treated as *comments* until the end of the current line.

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Section, Key Name & Default		Config Mem Address	Bit flags (0 - 7)
[Startup]			
StartupStrAddr=0h		0000 - 1h	
StartupStr=""		String located at StartupStrAddr	
[OperatingModes]			
BuzzerDuration=02h		0002h	0 - 1
CmdPorts=05h		0002h	2 - 6
LEDScan=00h		0002h	7
CmdStatePrefix1=02h		0003h	
CmdStatePrefix2=00h		0004h	
NumLockLEDNo=0Ch		0005h	
CapsLockLEDNo=0Dh		0006h	
ScrollLockLEDNo=0Eh		0007h	
GoodReadLEDNo=0Fh		0008h	
PowerLEDNo=10h		0009h	
LEDFlashRate=19h		000Ah	
[ExternalKbdInterface]			
ExternalKbdType=02h		000Bh	
[ComputerInterface]			
ComputerInterface=02h		000Ch	
[DelayDevices]			
DelayDev1=01h		000Dh	
DelayDev2=02h		000Eh	
DelayDev3=05h		000Fh	

Section, Key Name & Default		Config Mem Address	Bit flags (0 - 7)
[BlockDevices]			
BlkDev1PreAddr=0h		0010 - 11h	
BlkDev1PostAddr=32h		0012 - 13h	
BlkDev2PreAddr=0h		0015 - 16h	
BlkDev2PostAddr=34h		0017 - 18h	
BlkDev1PreStr=""		String located at BlkDev1PreAddr	
BlkDev1PostStr="\r"		String located at BlkDev1PostAddr	
BlkDev2PreStr=""		String located at BlkDev2PreAddr	
BlkDev2PostStr="\r\n"		String located at BlkDev2PostAddr	
BlkDev1Terminator=0Dh		0014h	
BlkDev2Terminator=0Dh		0019h	
[MagneticCardReader]			
MCRPreAddr=0h		001B - 1Ch	
MCRPostAddr=32h		001D - 1Eh	
MCRPreStr=""		String located at MCRPreAddr	
MCRPostStr="\r"		String located at MCRPostAddr	
SendMCRTrack=07h		001Ah	0 - 2
MCROrder123=00h		001Ah	3
MCRConcat=00h		001Ah	4
SendMCRId=00h		001Ah	6
MultiTrackOper=00h		001Ah	7

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[BarCodeReader]		
BCRPreAddr=0h	001F - 20h	
BCRPostAddr=32h	0021 - 22h	
BCRPreStr=""	String located at BCRPreAddr	
BCRPostStr="\r"	String located at BCRPostAddr	
DecodeBarCode=1Fh	0023h	0 - 4
UPCOptions1=CBh	0024h	
UPCOptions2=03h	0025h	0 - 2
CodabarOptions=04h	0026h	0 - 3
TransSymId=00h	0027h	0 - 1
TransNumDig=00h	0027h	2
ITFLength1=00h	0028h	
ITFLength2=00h	0029h	
[SerialComms]		
NetworkAddr=00h	002Bh	
SerPort1Format=42h	002Ch	
SerPort1Handshk=0Ch	002Dh	
SerPort2Format=42h	002Fh	
SerPort2Handshk=0Ch	0030h	
SerPort3Format=42h	008Eh	
SerPort3Handshk=0Ch	008Fh	
SerPort4Format=42h	0091h	
SerPort4Handshk=0Ch	0092h	
SerPort5Format=42h	0094h	
SerPort5Handshk=0Ch	0095h	
SerPort6Format=42h	0097h	
SerPort6Handshk=0Ch	0098h	

[CharFilters]		
c4InStrOutStrAddr=0h	0038 - 39h	
c4InStr=""	Data located at c4InStrOutStrAddr	
c4OutStr=""	Data located at c4InStrOutStrAddr	
c5InCharOutStrAddr=0h	003A - 3Bh	
	c5 table generated by S143 software, when c5 is used.	
[TouchMemory]		
TM1PreAddr=0h	003C - 3Dh	
TM1PostAddr=32h	003E - 3Fh	
TM1PreStr=""	String located at TM1PreAddr	
TM1PostStr="\r"	String located at TM1PostAddr	
[CharCounters]		
DownCountStr1Addr=0h	0041 - 42h	
DownCountStr2Addr=0h	0044 - 45h	
DownCountStr3Addr=0h	0047 - 48h	
DownCountStr1=""	String located at DownCountStr1Addr	
DownCountStr2=""	String located at DownCountStr2Addr	
DownCountStr3=""	String located at DownCountStr3Addr	
DownCharCounter1=01h	0040h	
DownCharCounter2=01h	0043h	
DownCharCounter3=01h	0046h	
[Monitor Display]		
MonitorFlags=00h	0049h	
MonitorEmulation=00h	004Ah	

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[Custom Tasks]		
CustomTaskPtr1=0h	0050 - 51h	
CustomTaskPtr2=0h	0052 - 53h	
CustomTaskPtr3=0h	0054 - 55h	
CustomTaskPtr4=0h	0056 - 57h	
CustomTaskPtr5=0h	0058 - 59h	
CustomTaskPtr6=0h	005A - 5Bh	
CustomTaskPtr7=0h	005C - 5Dh	
CustomTaskPtr8=0h	005E - 5Fh	
[KbdModes]		
KbdLayerAddr=0h	0088 - 89h	
KeyClick=01h	0080h	0
KeyAutoRepRate=01h	0080h	6 - 7
RateADelay=25h	0081h	
RateARepRate=19h	0082h	
RateBDelay=19h	0083h	
RateBRepRate=05h	0084h	
BaseKbdLayerNo=80h	0087h	
[ConversionDevices]		
x4TablePtr=0h	008Ah	not implemented
[ParallelPorts]		
ParPort1Dir=01h	008Ch	0
ParPort2Dir=01h	008Ch	1
ParPort3Dir=01h	008Ch	2
[Defaults]	**These should not be altered**	
SizeCarrRetStr=01h	0032h	
CarrRetChar1=0Dh	0033h	
SizeCRLFStr=02h	0034h	
CarrRetChar2=0Dh	0035h	
LineFeedChar=0Ah	0036h	

[KbdLayer1]		
ID=	Data generated by the S143 software when keyboard layers are programmed.	
Nokeys=		
LEDNo=		
a1m=""		
a1b=""		
....		
p8m=""		
p8b=""		
[KbdLayer2]		
ID=		
NoKeys=		
LEDNo=		

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