MT82W
Scan Engine
Serial Commands Manual

Version 1.0   DATE: 2023/06/08

Chapter 1 Command List

Input：{head}{device ID}command}commandstatus}{package no.}{data length}{data}{CRC16Check Digit} {end}

return：{head}{device ID}command}commandstatus}{package no.}{data length}{data}{CRC16Check Digit} {end}

Note: The special description of the package label null is 0x00, the input head is 0x57 0x00, the input command status is 0x10, the returned head is 0x31 0x00, and the returned command status may be 0x10 (indicating that the setting is successful) or 0x11 (indicating that the setting is successful) fail).

Type	Command	Data Length		Function Description	Command
System Setting	02 01 00	04 00	01 00 00 00	Enter Setting	57 00 00 02 01 00 00 00 00 04 00 01 00 00 00 EA 7D 50 41
	02 01 00	04 00	00 00 00 00	Exit Setting	57 00 00 02 01 00 00 00 00 04 00 00 00 00 00 EB 81 50 41
	02 02 00	00 00	null	Restore Factory Default	57 00 00 02 02 00 00 00 00 00 00 B9 6C 50 41

	02 04 00	04 00	00 00 00 00	Save User Default	57 00 00 02 04 00 00 00 00 04 00 00 00 00 00 FA 4D 50 41
	02 04 00	04 00	01 00 00 00	Restore to User Default	57 00 00 02 04 00 00 00 00 04 00 01 00 00 00 FB B1 50 41

02 05 00	04 00	00 00 00 00	Set Reread Timeout to 500ms	57 00 00 02 05 00 00 00 00 04 00 00 00 00 00 FE B1 50 41
02 05 00	04 00	01 00 00 00	Set Reread Timeout to 750ms	57 00 00 02 05 00 00 00 00 04 00 01 00 00 00 FF 4D 50 41
02 05 00	04 00	02 00 00 00	Set Reread Timeout 1s	57 00 00 02 05 00 00 00 00 04 00 02 00 00 00 FF 09 50 41
02 05 00	04 00	02 00 00 00	Set Reread Timeout 2s	57 00 00 02 05 00 00 00 00 04 00 03 00 00 00 FE F5 50 41
02 06 01	04 00	01 00 00 00	Set Good Read Beep and Error Beep Volume to High	57 00 00 02 06 01 00 00 00 04 00 01 00 00 00 A1 CC 50 41
02 06 01	04 00	00 00 00 00	Set Good Read Beep and Error Beep Volume to Low	57 00 00 02 06 01 00 00 00 04 00 00 00 00 00 A0 30 50 41
02 06 02	04 00	01 00 00 00	Turn on Startup Beep	57 00 00 02 06 02 00 00 00 04 00 01 00 00 00 51 C3 50 41
02 06 02	04 00	00 00 00 00	Turn off Startup Beep	57 00 00 02 06 02 00 00 00 04 00 00 00 00 00 50 3F 50 41
02 06 03	04 00	01 00 00 00	Turn on Good Read Beep and Error Beep	57 00 00 02 06 03 00 00 00 04 00 01 00 00 00 00 06 50 41
02 06 03	04 00	00 00 00 00	Turn off Good Read Beep and Error Beep	57 00 00 02 06 03 00 00 00 04 00 00 00 00 00 01 FA 50 41

02 06 04	04 00	00 00 00 00	Set Good Read Beep Tone to Low	57 00 00 02 06 04 00 00 00 04 00 00 00 00 00 B0 20 50 41
02 06 04	04 00	01 00 00 00	Set Good Read Beep Tone to Medium	57 00 00 02 06 04 00 00 00 04 00 01 00 00 00 B1 DC 50 41
02 06 04	04 00	02 00 00 00	Set Good Read Beep Tone to High	57 00 00 02 06 04 00 00 00 04 00 02 00 00 00 B1 98 50 41
02 06 05	04 00	01 00 00 00	Set Good Read Beep and Error Beep Duration to Long	57 00 00 02 06 05 00 00 00 04 00 01 00 00 00 E0 19 50 41
02 06 05	04 00	00 00 00 00	Set Good Read Beep and Error Beep Duration to Short	57 00 00 02 06 05 00 00 00 04 00 00 00 00 00 E1 E5 50 41
02 06 06	04 00	00 00 00 00	Set Error Beep Tone to Low	57 00 00 02 06 06 00 00 00 04 00 00 00 00 00 11 EA 50 41
02 06 06	04 00	01 00 00 00	Set Error Beep Tone to Medium	57 00 00 02 06 06 00 00 00 04 00 01 00 00 00 10 16 50 41
02 06 06	04 00	02 00 00 00	Set Error Beep Tone to High	57 00 00 02 06 06 00 00 00 04 00 02 00 00 00 10 52 50 41
02 06 07	04 00	01 00 00 00	Turn on Command-Sending Beep	57 00 00 02 06 07 00 00 00 04 00 01 00 00 00 41 D3 50 41
02 06 07	04 00	00 00 00 00	Turn off Command-Sending Beep	57 00 00 02 06 07 00 00 00 04 00 00 00 00 00 40 2F 50 41

	02 07 00	04 00	02 00 00 00	Illumination LED Normal Mode	57 00 00 02 07 00 00 00 00 04 00 02 00 00 00 F4 B1 50 41
	02 07 00	04 00	01 00 00 00	Set Illumination LED always on	57 00 00 02 07 00 00 00 00 04 00 01 00 00 00 F4 F5 50 41
	02 07 00	04 00	00 00 00 00	Set Illumination LED always off	57 00 00 02 07 00 00 00 00 04 00 00 00 00 00 F5 09 50 41
	02 09 00	04 00	01 00 00 00	Turn on Indicator LED	57 00 00 02 09 00 00 00 00 04 00 01 00 00 00 C0 1D 50 41
	02 09 00	04 00	00 00 00 00	Turn off Indicator LED	57 00 00 02 09 00 00 00 00 04 00 00 00 00 00 C1 E1 50 41
	02 0D 01	04 00	00 00 00 00	Disable Sleep Mode	57 00 00 02 0D 01 00 00 00 04 00 00 00 00 00 85 14 50 41
	02 0D 01	04 00	01 00 00 00	Enable Sleep Mode	57 00 00 02 0D 01 00 00 00 04 00 01 00 00 00 84 E8 50 41
	02 0D 02	00 00	Null	Enter Sleep Mode Now	57 00 00 02 0D 02 00 00 00 00 00 47 8E 50 41
	02 0D 03	04 00	0A 00 00 00	Set Custom Timeout for Power off	57 00 00 02 0D 03 00 00 00 04 00 0A 00 00 00 27 06 50 41
	02 0E 00	04 00	01 00 00 00	Enable Configuration Parameter	57 00 00 02 0E 00 00 00 00 04 00 01 00 00 00 DA 69 50 41

	02 0E 00	04 00	00 00 00 00	Disable Configuration Parameter	57 00 00 02 0E 00 00 00 00 04 00 00 00 00 00 DB 95 50 41
Sca n Mo de	03 01 01	00 00	null	Auto-sensing Mode	57 00 00 03 01 01 00 00 00 00 00 4A 71 50 41
	03 01 02	04 00	00 00 00 00	Set Decode Session Timeout to Short	57 00 00 03 01 02 00 00 00 04 00 00 00 00 00 B7 88 50 41
	03 01 02	04 00	01 00 00 00	Set Decode Session Timeout to Medium	57 00 00 03 01 02 00 00 00 04 00 01 00 00 00 B6 74 50 41
	03 01 02	04 00	02 00 00 00	Set Decode Session Timeout to Long	57 00 00 03 01 02 00 00 00 04 00 02 00 00 00 B6 30 50 41
	03 01 02	04 00	03 00 00 00	Set Custom Decode Session Timeout	57 00 00 03 01 02 00 00 00 04 00 03 00 00 00 B7 CC 50 41
	03 01 03	04 00	64 00 00 00	10s Set Decode Session Timeout to 10s	57 00 00 03 01 03 00 00 00 04 00 64 00 00 00 F9 7D 50 41
	03 02 00	00 00	null	Level Trigger Mode	57 00 00 03 02 00 00 00 00 00 00 78 A0 50 41
	03 03 00	00 00	null	Continuous Mode	57 00 00 03 03 00 00 00 00 00 00 68 60 50 41
	03 04 01	00 00	null	Host Mode	57 00 00 03 04 01 00 00 00 00 00 1F 71 50 41

03 04 03	04 00	00 00 00 00	Host Mode- Start Decoding	57 00 00 03 04 03 00 00 00 04 00 00 00 00 00 F7 81 50 41
03 04 03	04 00	01 00 00 00	Host Mode- Stop Decoding	57 00 00 03 04 03 00 00 00 04 00 01 00 00 00 F6 7d 50 41
04 01 02	00 00	Null	USB HID	57 00 00 04 01 02 00 00 00 00 00 0B A4 50 41
04 01 03	04 00	01 00 00 00	(Appendix 2) Enable Control Character Escape	57 00 00 04 01 03 00 00 00 04 00 01 00 00 00 12 7A 50 41
04 01 03	04 00	00 00 00 00	Disable Control Character Escape	57 00 00 04 01 03 00 00 00 04 00 00 00 00 00 13 86 50 41
04 01 04	04 00	00 00 00 00	Do not Replace GS character	57 00 00 04 01 04 00 00 00 04 00 00 00 00 00 A2 5C 50 41
04 01 04	04 00	01 00 00 00	Replace GS character to Ç	57 00 00 04 01 04 00 00 00 04 00 01 00 00 00 A3 A0 50 41
04 01 04	04 00	02 00 00 00	Replace GS character to |	57 00 00 04 01 04 00 00 00 04 00 02 00 00 00 A3 E4 50 41
04 01 04	04 00	03 00 00 00	Replace GS character to ^]	57 00 00 04 01 04 00 00 00 04 00 03 00 00 00 A2 18 50 41
04 01 04	04 00	04 00 00 00	Replace GS character to]	57 00 00 04 01 04 00 00 00 04 00 04 00 00 00 A3 6C 50 41

04 01 04	04 00	05 00 00 00	Replace GS character to <GS>	57 00 00 04 01 04 00 00 00 04 00 05 00 00 00 A2 90 50 41
04 01 08	04 00	00 00 00 00	Disable Virtual Keyboard	57 00 00 04 01 08 00 00 00 04 00 00 00 00 00 62 63 50 41
04 01 08	04 00	01 00 00 00	Enable Virtual Keyboard (Mode 一)	57 00 00 04 01 08 00 00 00 04 00 01 00 00 00 63 9F 50 41
04 01 08	04 00	02 00 00 00	Enable Virtual Keyboard (Mode 二)	57 00 00 04 01 08 00 00 00 04 00 02 00 00 00 63 DB 50 41
04 01 08	04 00	03 00 00 00	Enable Virtual Keyboard (Mode 三)	57 00 00 04 01 08 00 00 00 04 00 03 00 00 00 62 27 50 41
04 01 09	01 00	00	Set Transmission Speed-USB Keyboard to Low	57 00 00 04 01 09 00 00 00 01 00 00 0E C7 50 41
04 01 09	01 00	01	Set Transmission Speed-USB Keyboard to Medium	57 00 00 04 01 09 00 00 00 01 00 01 CF 07 50 41
04 01 09	01 00	02	Set Transmission Speed-USB Keyboard to High	57 00 00 04 01 09 00 00 00 01 00 02 8F 06 50 41
04 01 09	01 00	03	Set Custom Transmission Speed-USB Keyboard	57 00 00 04 01 09 00 00 00 01 00 03 4E C6 50 41
04 01 0A	04 00	0A 00 00 00	Set Transmission Speed-USB Keyboard to 10ms	57 00 00 04 01 0A 00 00 00 04 00 0A 00 00 00 C0 71 50 41

	04 01 0C	04 00	01 00 00 00	Set Country Keyboard to America(English)	57 00 00 04 01 0C 00 00 00 04 00 01 00 00 00 22 4A 50 41
	04 01 0C	04 00	03 00 00 00	Set Country Keyboard to Italian	57 00 00 04 01 0C 00 00 00 04 00 03 00 00 00 23 F2 50 41
	04 01 0C	04 00	06 00 00 00	Set Country Keyboard to Spanish(Brazil)	57 00 00 04 01 0C 00 00 00 04 00 06 00 00 00 23 3E 50 41
	04 01 0C	04 00	12 00 00 00	Set Country Keyboard to Portuguese(Portuguese)	57 00 00 04 01 0C 00 00 00 04 00 12 00 00 00 26 CE 50 41
	04 01 0C	04 00	13 00 00 00	Set Country Keyboard to Brazil(Portuguese)	57 00 00 04 01 0C 00 00 00 04 00 13 00 00 00 27 32 50 41
	04 01 0C	04 00	18 00 00 00	Set Country Keyboard to French	57 00 00 04 01 0C 00 00 00 04 00 18 00 00 00 25 16 50 41
	04 01 0C	04 00	19 00 00 00	Set Country Keyboard to German(Austria)	57 00 00 04 01 0C 00 00 00 04 00 19 00 00 00 24 EA 50 41
	04 01 0C	04 00	15 00 00 00	Set Country Keyboard to Turkish Q	57 00 00 04 01 0C 00 00 00 04 00 15 00 00 00 27 BA 50 41
	04 01 0C	04 00	16 00 00 00	Set Country Keyboard to Turkish F	57 00 00 04 01 0C 00 00 00 04 00 16 00 00 00 27 FE 50 41
	04 01 0C	04 00	1B 00 00 00	Set Country Keyboard to UK-English	57 00 00 04 01 0C 00 00 00 04 00 1B 00 00 00 25 52 50 41

	04 01 0C	04 00	09 00 00 00	Set Country Keyboard to Japanese	57 00 00 04 01 0C 00 00 00 04 00 09 00 00 00 20 2A 50 41
	04 01 0C	04 00	1A 00 00 00	Set Country Keyboard to Swiss(German)	57 00 00 04 01 0C 00 00 00 04 00 1A 00 00 00 24 AE 50 41
	04 01 0D	00 00	Null	USB CDC	57 00 00 04 01 0D 00 00 00 00 00 0B 5B 50 41
	04 02 01	00 00	null	RS-232	57 00 00 04 02 01 00 00 00 00 00 38 97 50 41
	04 02 02	00 00	null	RS-485	57 00 00 04 02 02 00 00 00 00 00 38 A4 50 41
	04 02 03	01 00	01	RS-485 Device ID 0x01	57 00 00 04 02 03 00 00 00 01 00 01 25 12 50 41
	04 02 04	04 00	00 00 00 00	Baud Rate： 4800	57 00 00 04 02 04 00 00 00 04 00 00 00 00 00 AD 18 50 41
	04 02 04	04 00	01 00 00 00	Baud Rate： 9600	57 00 00 04 02 04 00 00 00 04 00 01 00 00 00 AC E4 50 41
	04 02 04	04 00	02 00 00 00	Baud Rate： 19200	57 00 00 04 02 04 00 00 00 04 00 02 00 00 00 AC A0 50 41
	04 02 04	04 00	03 00 00 00	Baud Rate： 38400	57 00 00 04 02 04 00 00 00 04 00 03 00 00 00 AD 5C 50 41

04 02 04	04 00	04 00 00 00	Baud Rate ： 57600	57 00 00 04 02 04 00 00 00 04 00 04 00 00 00 AC 28 50 41
04 02 04	04 00	05 00 00 00	Baud Rate：115200	57 00 00 04 02 04 00 00 00 04 00 05 00 00 00 AD D4 50 41
04 02 05	04 00	06 00 00 00	Data Bit 8， Stop Bit 1, No Parity	57 00 00 04 02 05 00 00 00 04 00 06 00 00 00 FC 55 50 41
04 02 05	04 00	07 00 00 00	Data Bit 8， Stop Bit 1, Odd Parity	57 00 00 04 02 05 00 00 00 04 00 07 00 00 00 FD A9 50 41
04 02 05	04 00	08 00 00 00	Data Bit 8， Stop Bit 1, Even Parity	57 00 00 04 02 05 00 00 00 04 00 08 00 00 00 FE BD 50 41
04 02 05	04 00	09 00 00 00	Data Bit 8， Stop Bit 2, No Parity	57 00 00 04 02 05 00 00 00 04 00 09 00 00 00 FF 41 50 41
04 02 05	04 00	0A 00 00 00	Data Bit 8， Stop Bit 2, Odd Parity	57 00 00 04 02 05 00 00 00 04 00 0A 00 00 00 FF 05 50 41
04 02 05	04 00	0B 00 00 00	Data Bit 8， Stop Bit 2, Even Parity	57 00 00 04 02 05 00 00 00 04 00 0B 00 00 00 FE F9 50 41
04 02 06	04 00	00 00 00 00	Set Serial Decode Format to origin data	57 00 00 04 02 06 00 00 00 04 00 00 00 00 00 0C D2 50 41
04 02 06	04 00	01 00 00 00	Set Serial Decode Format to UTF-8	57 00 00 04 02 06 00 00 00 04 00 01 00 00 00 0D 2E 50 41

	04 02 06	04 00	02 00 00 00	Set Serial Decode Format to GBK	57 00 00 04 02 06 00 00 00 04 00 02 00 00 00 0D 6A 50 41
	04 03 01	00 00	null	Wiegand Interface	57 00 00 04 03 01 00 00 00 00 00 28 57 50 41
	04 03 02	04 00	00 00 00 00	Wiegand 26	57 00 00 04 03 02 00 00 00 04 00 00 00 00 00 49 FB 50 41
	04 03 02	04 00	01 00 00 00	Wiegand 34	57 00 00 04 03 02 00 00 00 04 00 01 00 00 00 48 07 50 41
Data Format	05 01 01	04 00	01 00 00 00	Enable Custom Prefix	57 00 00 05 01 01 00 00 00 04 00 01 00 00 00 4E 73 50 41
	05 01 01	04 00	00 00 00 00	Disable Custom Prefix	57 00 00 05 01 01 00 00 00 04 00 00 00 00 00 4F 8F 50 41
	05 01 02	00 00	null	Clear Custom Prefix	57 00 00 05 01 02 00 00 00 00 00 CA 68 50 41
	05 01 03	02 00	99 61	Example: Set Custom Prefix "a"(hex:6 1) to all symbologies (hex:99)	57 00 00 05 01 03 00 00 00 02 00 99 61 3C 82 50 41
	05 02 01	04 00	01 00 00 00	Enable Custom Suffix	57 00 00 05 02 01 00 00 00 04 00 01 00 00 00 41 37 50 41
	05 02 01	04 00	00 00 00 00	Disable Custom Suffix	57 00 00 05 02 01 00 00 00 04 00 00 00 00 00 40 CB 50 41

05 02 02	00 00	null	Clear Custom Suffix	57 00 00 05 02 02 00 00 00 00 00 F9 68 50 41
05 02 03	02 00	99 61	Example :Set Custom Suffix "a"(hex:6 1) to all symbologies (hex:99)	57 00 00 05 02 03 00 00 00 02 00 99 61 28 72 50 41
05 03 01	04 00	00 00 00 00	Disable CODE ID	57 00 00 05 03 01 00 00 00 04 00 00 00 00 00 44 37 50 41
05 03 01	04 00	01 00 00 00	Enable CODE ID Prefix	57 00 00 05 03 01 00 00 00 04 00 01 00 00 00 45 CB 50 41
05 03 01	04 00	02 00 00 00	Enable CODE ID Suffix	57 00 00 05 03 01 00 00 00 04 00 02 00 00 00 45 8F 50 41
05 03 02	00 00	null	Clear CODE ID	57 00 00 05 03 02 00 00 00 00 00 E9 A8 50 41
05 03 03	02 00	61 59	Set Custom CODE ID, Example: Set Codabar CodeID (appendix 1) to "Y" (appendix 3)	57 00 00 05 03 03 00 00 00 02 00 61 59 67 F0 50 41
05 04 00	04 00	00 00 00 00	Disable AIM ID	57 00 00 05 04 00 00 00 00 04 00 00 00 00 00 0F 86 50 41
05 04 00	04 00	01 00 00 00	Enable AIM ID Prefix	57 00 00 05 04 00 00 00 00 04 00 01 00 00 00 0E 7A 50 41
05 04 00	04 00	02 00 00 00	Enable AIM ID Sufix	57 00 00 05 04 00 00 00 00 04 00 02 00 00 00 0E 3E 50 41

05 05 00	04 00	00 00 00 00	No Start Character	57 00 00 05 05 00 00 00 00 04 00 00 00 00 00 0B 7A 50 41
05 05 00	04 00	01 00 00 00	Set Start Character to STX	57 00 00 05 05 00 00 00 00 04 00 01 00 00 00 0A 86 50 41
05 06 00	04 00	00 00 00 00	Set Terminator as CR (Enter)	57 00 00 05 06 00 00 00 00 04 00 00 00 00 00 04 3E 50 41
05 06 00	04 00	01 00 00 00	Set Terminator as LF (Down)	57 00 00 05 06 00 00 00 00 04 00 01 00 00 00 05 C2 50 41
05 06 00	04 00	02 00 00 00	Set Terminator as CR+LF (Enter+Down)	57 00 00 05 06 00 00 00 00 04 00 02 00 00 00 05 86 50 41
05 06 00	04 00	03 00 00 00	Set Terminator as Tab	57 00 00 05 06 00 00 00 00 04 00 03 00 00 00 04 7A 50 41
05 06 00	04 00	04 00 00 00	Set Terminator as ETX	57 00 00 05 06 00 00 00 00 04 00 04 00 00 00 05 0E 50 41
05 06 00	04 00	05 00 00 00	No Terminator Suffix	57 00 00 05 06 00 00 00 00 04 00 05 00 00 00 04 F2 50 41
05 07 01	04 00	00 00 00 00	Set Prefix sequence : Start Character+CODE ID+AIM ID+Custom Prefix	57 00 00 05 07 01 00 00 00 04 00 00 00 00 00 51 07 50 41
05 07 01	04 00	01 00 00 00	Set Prefix sequence: Start Character+Custom Prefix+CODE ID+AIM ID	57 00 00 05 07 01 00 00 00 04 00 01 00 00 00 50 FB 50 41

	05 07 02	04 00	00 00 00 00	Set Suffix sequence: Custom Suffix+CODE ID+AIM ID+Terminator Suffix	57 00 00 05 07 02 00 00 00 04 00 00 00 00 00 A1 08 50 41
	05 07 02	04 00	01 00 00 00	Set Suffix sequence: CODE ID+AIM ID+Custom Suffix+Terminator Suffix	57 00 00 05 07 02 00 00 00 04 00 01 00 00 00 A0 F4 50 41
	05 08 00	04 00	00 00 00 00	Do not Convert Case	57 00 00 05 08 00 00 00 00 04 00 00 00 00 00 30 D6 50 41
	05 08 00	04 00	01 00 00 00	Convert Case	57 00 00 05 08 00 00 00 00 04 00 01 00 00 00 31 2A 50 41
	05 08 00	04 00	02 00 00 00	Convert all to Upper Case	57 00 00 05 08 00 00 00 00 04 00 02 00 00 00 31 6E 50 41
	05 08 00	04 00	03 00 00 00	Convert all to Lower Case	57 00 00 05 08 00 00 00 00 04 00 03 00 00 00 30 92 50 41
	05 09 01	04 00	00 00 00 00	Transmit Origin Decoded Data	57 00 00 05 09 01 00 00 00 04 00 00 00 00 00 65 EF 50 41
	05 09 01	04 00	01 00 00 00	Transmit start data	57 00 00 05 09 01 00 00 00 04 00 01 00 00 00 64 13 50 41
	05 09 01	04 00	02 00 00 00	Transmit Center Data	57 00 00 05 09 01 00 00 00 04 00 02 00 00 00 64 57 50 41

	05 09 01	04 00	03 00 00 00	Transmit End Data	57 00 00 05 09 01 00 00 00 04 00 03 00 00 00 65 AB 50 41
	05 09 01	04 00	04 00 00 00	Transmit Start and End Data	57 00 00 05 09 01 00 00 00 04 00 04 00 00 00 64 DF 50 41
	05 09 02	04 00	03 00 00 00	Set Start Data Length to 3	57 00 00 05 09 02 00 00 00 04 00 03 00 00 00 95 A4 50 41
	05 09 03	04 00	04 00 00 00	Set End Data Length to 4	57 00 00 05 09 03 00 00 00 04 00 04 00 00 00 C5 15 50 41
	05 0A 00	00 00	null	Clear Cache Data	57 00 00 05 0A 00 00 00 00 00 00 71 4A 50 41
解码库设置	06 01 00	04 00	01 00 00 00	Enable All Symbologies	57 00 00 06 01 00 00 00 00 04 00 01 00 00 00 1B B2 50 41
	06 01 00	04 00	00 00 00 00	Disable All Symbologies	57 00 00 06 01 00 00 00 00 04 00 00 00 00 00 1A 4E 50 41
	06 02 00	04 00	01 00 00 00	Enable All 1D Symbologies	57 00 00 06 02 00 00 00 00 04 00 01 00 00 00 14 F6 50 41
	06 02 00	04 00	00 00 00 00	Disable All 1D Symbologies	57 00 00 06 02 00 00 00 00 04 00 00 00 00 00 15 0A 50 41
	06 03 00	04 00	01 00 00 00	Enable All 2D Symbologies	57 00 00 06 03 00 00 00 00 04 00 01 00 00 00 10 0A 50 41

06 03 00	04 00	00 00 00 00	Disable All 2D Symbologies	57 00 00 06 03 00 00 00 00 04 00 00 00 00 00 11 F6 50 41
06 04 00	04 00	00 00 00 00	Only Decode Regular Bar Codes	57 00 00 06 04 00 00 00 00 04 00 00 00 00 00 0B 82 50 41
06 04 00	04 00	01 00 00 00	Only Decode Inverse Bar Codes	57 00 00 06 04 00 00 00 00 04 00 01 00 00 00 0A 7E 50 41
06 04 00	04 00	02 00 00 00	Decode Both Regular and Inverse Bar Codes	57 00 00 06 04 00 00 00 00 04 00 02 00 00 00 0A 3A 50 41
06 05 01	04 00	01 00 00 00	Enable Codabar	57 00 00 06 05 01 00 00 00 04 00 01 00 00 00 5F 47 50 41
06 05 01	04 00	00 00 00 00	Disable Codabar	57 00 00 06 05 01 00 00 00 04 00 00 00 00 00 5E BB 50 41
06 05 02	04 00	01 00 00 00	Codaba Start/Stop Character Enable	57 00 00 06 05 02 00 00 00 04 00 01 00 00 00 AF 48 50 41
06 05 02	04 00	00 00 00 00	Codaba Start/Stop Character Disable	57 00 00 06 05 02 00 00 00 04 00 00 00 00 00 AE B4 50 41
06 05 03	02 00	08 0C	Example : Set Length Range 8-12 for Codabar	57 00 00 06 05 03 00 00 00 02 00 08 0C 52 30 50 41
06 06 01	04 00	01 00 00 00	Enable Codo 39	57 00 00 06 06 01 00 00 00 04 00 01 00 00 00 50 03 50 41

06 06 01	04 00	00 00 00 00	Disable Codo 39	57 00 00 06 06 01 00 00 00 04 00 00 00 00 00 51 FF 50 41
06 06 02	04 00	00 00 00 00	Disable Code 39 Check Digit	57 00 00 06 06 02 00 00 00 04 00 00 00 00 00 A1 F0 50 41
06 06 02	04 00	01 00 00 00	Enable but Do not Transmit Code 39 Check Digit	57 00 00 06 06 02 00 00 00 04 00 01 00 00 00 A0 0C 50 41
06 06 02	04 00	02 00 00 00	Enable and Transmit Code 39 Check Digit	57 00 00 06 06 02 00 00 00 04 00 02 00 00 00 A0 48 50 41
06 06 03	04 00	00 00 00 00	Disable Code 39 Full ASCII	57 00 00 06 06 03 00 00 00 04 00 00 00 00 00 F0 35 50 41
06 06 03	04 00	01 00 00 00	Enable Code 39 Full ASCII	57 00 00 06 06 03 00 00 00 04 00 01 00 00 00 F1 C9 50 41
06 06 04	02 00	08 0C	Example : Set Length Range 8-12 for Code 39	57 00 00 06 06 04 00 00 00 02 00 08 0C 07 26 50 41
06 07 00	04 00	01 00 00 00	Enable Code 32	57 00 00 06 07 00 00 00 00 04 00 01 00 00 00 05 3A 50 41
06 07 00	04 00	00 00 00 00	Disable Code 32	57 00 00 06 07 00 00 00 00 04 00 00 00 00 00 04 C6 50 41
06 08 01	04 00	01 00 00 00	Enable Interleaved 2 of 5 (ITF5)	57 00 00 06 08 01 00 00 00 04 00 01 00 00 00 64 EB 50 41

06 08 01	04 00	00 00 00 00	Disable Interleaved 2 of 5 (ITF5)	57 00 00 06 08 01 00 00 00 04 00 00 00 00 00 65 17 50 41
06 08 02	04 00	00 00 00 00	Interleaved 2 of 5 (ITF5) Disable Check Digit	57 00 00 06 08 02 00 00 00 04 00 00 00 00 00 95 18 50 41
06 08 02	04 00	01 00 00 00	Enable but do not Transmit Interleaved 2 of 5 Check Digit	57 00 00 06 08 02 00 00 00 04 00 01 00 00 00 94 E4 50 41
06 08 02	04 00	02 00 00 00	Enable and Transmit Interleaved 2 of 5 Check Digit	57 00 00 06 08 02 00 00 00 04 00 02 00 00 00 94 A0 50 41
06 08 03	04 00	00 00 00 00	Interleaved 2 of 5 (ITF5) Any Length (4-128)	57 00 00 06 08 03 00 00 00 04 00 00 00 00 00 C4 DD 50 41
06 08 03	04 00	01 00 00 00	Set Interleaved 2 of 5 (ITF5) to 6 digit length	57 00 00 06 08 03 00 00 00 04 00 01 00 00 00 C5 21 50 41
06 08 03	04 00	02 00 00 00	Set Interleaved 2 of 5 (ITF5) to 8 digit length	57 00 00 06 08 03 00 00 00 04 00 02 00 00 00 C5 65 50 41
06 08 03	04 00	03 00 00 00	Set Interleaved 2 of 5 (ITF5) to 10 digit length	57 00 00 06 08 03 00 00 00 04 00 03 00 00 00 C4 99 50 41
06 08 03	04 00	04 00 00 00	Set Interleaved 2 of 5 (ITF5) to 12 digit length	57 00 00 06 08 03 00 00 00 04 00 04 00 00 00 C5 ED 50 41
06 08 03	04 00	05 00 00 00	Set Interleaved 2 of 5 (ITF5) to 14 digit length	57 00 00 06 08 03 00 00 00 04 00 05 00 00 00 C4 11 50 41

	06 08 03	04 00	06 00 00 00	Set Interleaved 2 of 5 (ITF5) to 16 digit length	57 00 00 06 08 03 00 00 00 04 00 06 00 00 00 C4 55 50 41
	06 08 03	04 00	07 00 00 00	Set Interleaved 2 of 5 (ITF5) to 18 digit length	57 00 00 06 08 03 00 00 00 04 00 07 00 00 00 C5 A9 50 41
	06 08 03	04 00	08 00 00 00	Set Interleaved 2 of 5 (ITF5) to 20 digit length	57 00 00 06 08 03 00 00 00 04 00 08 00 00 00 C6 BD 50 41
	06 08 03	04 00	09 00 00 00	Set Interleaved 2 of 5 (ITF5) to 22 digit length	57 00 00 06 08 03 00 00 00 04 00 09 00 00 00 C7 41 50 41
	06 08 03	04 00	0A 00 00 00	ISet Interleaved 2 of 5 (ITF5) to 24 digit length	57 00 00 06 08 03 00 00 00 04 00 0A 00 00 00 C7 05 50 41
	06 08 03	04 00	0B 00 00 00	Interleaved 2 of 5 (ITF5) Any Length	57 00 00 06 08 03 00 00 00 04 00 0B 00 00 00 C6 F9 50 41
	06 08 04	02 00	08 0C	Interleaved 2 of 5 (ITF5) Set length Range 8-12	57 00 00 06 08 04 00 00 00 02 00 08 0C 4B 46 50 41
	06 09 01	04 00	01 00 00 00	Enable Industrial 2 of 5	57 00 00 06 09 01 00 00 00 04 00 01 00 00 00 60 17 50 41
	06 09 01	04 00	00 00 00 00	Disable Industrial 2 of 5	57 00 00 06 09 01 00 00 00 04 00 00 00 00 00 61 EB 50 41
	06 09 02	02 00	08 0C	Example: Industrial 2 of 5 Set Length Range 8-12	57 00 00 06 09 02 00 00 00 02 00 08 0C C6 FC 50 41

06 0A 01	04 00	01 00 00 00	Enable Matrix 2 of 5	57 00 00 06 0A 01 00 00 00 04 00 01 00 00 00 6F 53 50 41
06 0A 01	04 00	00 00 00 00	Disable Matrix 2 of 5	57 00 00 06 0A 01 00 00 00 04 00 00 00 00 00 6E AF 50 41
06 0A 02	02 00	08 0C	Example : Matrix 2 of 5 Length Range 8-12	57 00 00 06 0A 02 00 00 00 02 00 08 0C D2 0C 50 41
06 0B 01	04 00	01 00 00 00	Enable Code 93	57 00 00 06 0B 01 00 00 00 04 00 01 00 00 00 6B AF 50 41
06 0B 01	04 00	00 00 00 00	Disable Code 93	57 00 00 06 0B 01 00 00 00 04 00 00 00 00 00 6A 53 50 41
06 0B 02	02 00	08 0C	Example : Code 93 Set Length Range 8-12	57 00 00 06 0B 02 00 00 00 02 00 08 0C DF 9C 50 41
06 0C 01	04 00	01 00 00 00	Enable Code 11	57 00 00 06 0C 01 00 00 00 04 00 01 00 00 00 71 DB 50 41
06 0C 01	04 00	00 00 00 00	Disable Code 11	57 00 00 06 0C 01 00 00 00 04 00 00 00 00 00 70 27 50 41
06 0C 02	04 00	01 00 00 00	Do not Transmit Code 11 Check Digit	57 00 00 06 0C 02 00 00 00 04 00 01 00 00 00 81 D4 50 41
06 0C 02	04 00	00 00 00 00	Transmit Code 11 Check Digit	57 00 00 06 0C 02 00 00 00 04 00 00 00 00 00 80 28 50 41

06 0C 03	04 00	00 00 00 00	Disable Code 11 Check Digit	57 00 00 06 0C 03 00 00 00 04 00 00 00 00 00 D1 ED 50 41
06 0C 03	04 00	01 00 00 00	Enable Code 11 1 Check Digit	57 00 00 06 0C 03 00 00 00 04 00 01 00 00 00 D0 11 50 41
06 0C 03	04 00	02 00 00 00	Enable Code 11 2 Check Digit	57 00 00 06 0C 03 00 00 00 04 00 02 00 00 00 D0 55 50 41
06 0C 04	02 00	08 0C	Example: Set Length Range 8-12 to Code 11	57 00 00 06 0C 04 00 00 00 02 00 08 0C 79 86 50 41
06 0D 01	04 00	01 00 00 00	Enable Code 128	57 00 00 06 0D 01 00 00 00 04 00 01 00 00 00 75 27 50 41
06 0D 01	04 00	00 00 00 00	Disable Code 128	57 00 00 06 0D 01 00 00 00 04 00 00 00 00 00 74 DB 50 41
06 0D 02	02 00	08 0C	Example: Set Length Range 8-12 to Code 128	57 00 00 06 0D 02 00 00 00 02 00 08 0C F4 3C 50 41
06 0E 00	04 00	01 00 00 00	Enable GS1-128	57 00 00 06 0E 00 00 00 00 04 00 01 00 00 00 2B A6 50 41
06 0E 00	04 00	00 00 00 00	Disable GS1-128	57 00 00 06 0E 00 00 00 00 04 00 00 00 00 00 2A 5A 50 41
06 10 01	04 00	01 00 00 00	Enable UPC-A	57 00 00 06 10 01 00 00 00 04 00 01 00 00 00 1A 4B 50 41

	06 10 01	04 00	00 00 00 00	Disable UPC-A	57 00 00 06 10 01 00 00 00 04 00 00 00 00 00 1B B7 50 41
	06 10 02	04 00	01 00 00 00	Transmit UPC-A Check Digit	57 00 00 06 10 02 00 00 00 04 00 01 00 00 00 EA 44 50 41
	06 10 02	04 00	00 00 00 00	Do not Transmit UPC-A Check Digit	57 00 00 06 10 02 00 00 00 04 00 00 00 00 00 EB B8 50 41
	06 10 03	04 00	01 00 00 00	Convert UPC-A to EAN-13	57 00 00 06 10 03 00 00 00 04 00 01 00 00 00 BB 81 50 41
	06 10 03	04 00	00 00 00 00	Convert UPC-A to EAN-13	57 00 00 06 10 03 00 00 00 04 00 00 00 00 00 BA 7D 50 41
	06 11 01	04 00	01 00 00 00	Enable UPC-E	57 00 00 06 11 01 00 00 00 04 00 01 00 00 00 1E B7 50 41
	06 11 01	04 00	00 00 00 00	Disable UPC-E	57 00 00 06 11 01 00 00 00 04 00 00 00 00 00 1F 4B 50 41
	06 11 02	04 00	01 00 00 00	Transmit UPC-E Check Digit	57 00 00 06 11 02 00 00 00 04 00 01 00 00 00 EE B8 50 41
	06 11 02	04 00	00 00 00 00	Do not Transmit UPC-E Check Digit	57 00 00 06 11 02 00 00 00 04 00 00 00 00 00 EF 44 50 41
	06 11 03	04 00	01 00 00 00	Convert UPC-E to UPC-A	57 00 00 06 11 03 00 00 00 04 00 01 00 00 00 BF 7D 50 41

06 11 03	04 00	00 00 00 00	Convert UPC-E to UPC-A	57 00 00 06 11 03 00 00 00 04 00 00 00 00 00 BE 81 50 41
06 12 00	04 00	01 00 00 00	Enable EAN/JAN-8	57 00 00 06 12 00 00 00 00 04 00 01 00 00 00 40 36 50 41
06 12 00	04 00	00 00 00 00	Disable EAN/JAN-8	57 00 00 06 12 00 00 00 00 04 00 00 00 00 00 41 CA 50 41
06 13 01	04 00	01 00 00 00	Enable EAN/JAN-13	57 00 00 06 13 01 00 00 00 04 00 01 00 00 00 15 0F 50 41
06 13 01	04 00	00 00 00 00	Disable EAN/JAN-13	57 00 00 06 13 01 00 00 00 04 00 00 00 00 00 14 F3 50 41
06 13 02	04 00	01 00 00 00	Convert EAN13 to ISBN	57 00 00 06 13 02 00 00 00 04 00 01 00 00 00 E5 00 50 41
06 13 02	04 00	00 00 00 00	Do Not Convert EAN13 to ISBN	57 00 00 06 13 02 00 00 00 04 00 00 00 00 00 E4 FC 50 41
06 13 03	04 00	01 00 00 00	Convert EAN13 to ISSN	57 00 00 06 13 03 00 00 00 04 00 01 00 00 00 B4 C5 50 41
06 13 03	04 00	00 00 00 00	Do not Convert EAN13 to ISSN	57 00 00 06 13 03 00 00 00 04 00 00 00 00 00 B5 39 50 41
06 14 00	04 00	00 00 00 00	Ignore UPC/EAN/JAN Supplements	57 00 00 06 14 00 00 00 00 04 00 00 00 00 00 5F 42 50 41

06 14 00	04 00	01 00 00 00	Decode UPC/EAN/JAN Supplementals	57 00 00 06 14 00 00 00 00 04 00 01 00 00 00 5E BE 50 41
06 14 00	04 00	02 00 00 00	Self-describe UPC/EAN/JAN Supplementals	57 00 00 06 14 00 00 00 00 04 00 02 00 00 00 5E FA 50 41
06 15 01	04 00	01 00 00 00	Enable GS1 DataBar	57 00 00 06 15 01 00 00 00 04 00 01 00 00 00 0B 87 50 41
06 15 01	04 00	00 00 00 00	Disable GS1 DataBar	57 00 00 06 15 01 00 00 00 04 00 00 00 00 00 0A 7B 50 41
06 15 02	04 00	01 00 00 00	Enable GS1 DataBar Limited	57 00 00 06 15 02 00 00 00 04 00 01 00 00 00 FB 88 50 41
06 15 02	04 00	00 00 00 00	Disable GS1 DataBar Limited	57 00 00 06 15 02 00 00 00 04 00 00 00 00 00 FA 74 50 41
06 15 03	04 00	01 00 00 00	Enable GS1 DataBar Expanded	57 00 00 06 15 03 00 00 00 04 00 01 00 00 00 AA 4D 50 41
06 15 03	04 00	00 00 00 00	Disable GS1 DataBar Expanded	57 00 00 06 15 03 00 00 00 04 00 00 00 00 00 AB B1 50 41
06 15 04	04 00	01 00 00 00	Enable GS1 DATABAR(RSS14) Preamble	57 00 00 06 15 04 00 00 00 04 00 01 00 00 00 1B 97 50 41
06 15 04	04 00	00 00 00 00	Disable GS1 DATABAR(RSS14) Preamble	57 00 00 06 15 04 00 00 00 04 00 00 00 00 00 1A 6B 50 41

06 15 05	04 00	01 00 00 00	Enable GS1 DATABAR LIMITED Preamble	57 00 00 06 15 05 00 00 00 04 00 01 00 00 00 4A 52 50 41
06 15 05	04 00	00 00 00 00	Disable GS1 DATABAR LIMITED Preamble	57 00 00 06 15 05 00 00 00 04 00 00 00 00 00 4B AE 50 41
06 16 00	04 00	01 00 00 00	Enable PDF417	57 00 00 06 16 00 00 00 00 04 00 01 00 00 00 55 06 50 41
06 16 00	04 00	00 00 00 00	Disable PDF417	57 00 00 06 16 00 00 00 00 04 00 00 00 00 00 54 FA 50 41
06 17 00	04 00	01 00 00 00	Enable Micro PDF417	57 00 00 06 17 00 00 00 00 04 00 01 00 00 00 51 FA 50 41
06 17 00	04 00	00 00 00 00	Disable Micro PDF417	57 00 00 06 17 00 00 00 00 04 00 00 00 00 00 50 06 50 41
06 18 01	04 00	01 00 00 00	Enable QR	57 00 00 06 18 01 00 00 00 04 00 01 00 00 00 30 2B 50 41
06 18 01	04 00	00 00 00 00	Disable QR	57 00 00 06 18 01 00 00 00 04 00 00 00 00 00 31 D7 50 41
06 18 02	04 00	01 00 00 00	Enable QR URL	57 00 00 06 18 02 00 00 00 04 00 01 00 00 00 C0 24 50 41
06 18 02	04 00	00 00 00 00	Disable QR URL	57 00 00 06 18 02 00 00 00 04 00 00 00 00 00 C1 D8 50 41

06 19 00	04 00	01 00 00 00	Enable Micro QR	57 00 00 06 19 00 00 00 00 04 00 01 00 00 00 65 12 50 41
06 19 00	04 00	00 00 00 00	Disable Micro QR	57 00 00 06 19 00 00 00 00 04 00 00 00 00 00 64 EE 50 41
06 1A 00	04 00	01 00 00 00	Enable Data Matrix	57 00 00 06 1A 00 00 00 00 04 00 01 00 00 00 6A 56 50 41
06 1A 00	04 00	00 00 00 00	Disable Data Matrix	57 00 00 06 1A 00 00 00 00 04 00 00 00 00 00 6B AA 50 41
06 1B 00	04 00	01 00 00 00	Enable Aztec	57 00 00 06 1B 00 00 00 00 04 00 01 00 00 00 6E AA 50 41
06 1B 00	04 00	00 00 00 00	Disable Aztec	57 00 00 06 1B 00 00 00 00 04 00 00 00 00 00 6F 56 50 41
06 1E 01	04 00	01 00 00 00	Enable msiplessey	57 00 00 06 1E 01 00 00 00 04 00 01 00 00 00 2E A3 50 41
06 1E 01	04 00	00 00 00 00	Disable msiplessey	57 00 00 06 1E 01 00 00 00 04 00 00 00 00 00 2F 5F 50 41
06 1E 02	04 00	00 00 00 00	Disable msiplessey Check Digit	57 00 00 06 1E 02 00 00 00 04 00 00 00 00 00 DF 50 50 41
06 1E 02	04 00	01 00 00 00	Set msiplessey Check Digit MOD10	57 00 00 06 1E 02 00 00 00 04 00 01 00 00 00 DE AC 50 41

06 1E 02	04 00	02 00 00 00	Set msiplessey Check Digit MOD10/MOD10	57 00 00 06 1E 02 00 00 00 04 00 02 00 00 00 DE E8 50 41
06 1E 02	04 00	03 00 00 00	Set msiplessey Check Digit MOD10/MOD11	57 00 00 06 1E 02 00 00 00 04 00 03 00 00 00 DF 14 50 41
06 1E 03	02 00	08 0C	Example Set Length Range 8-12 to msiplessey	57 00 00 06 1E 03 00 00 00 02 00 08 0C EC C0 50 41
06 1F 00	04 00	01 00 00 00	Enable hanxi code	57 00 00 06 1F 00 00 00 00 04 00 01 00 00 00 7B 9A 50 41
06 1F 00	04 00	00 00 00 00	Disable hanxi code	57 00 00 06 1F 00 00 00 00 04 00 00 00 00 00 7A 66 50 41

Appendix

Appendix 1 Bar Code Types

Bar Code Types	CODE ID		AIM ID
	HEX		ID
All Bar Code Types	0x99		
Codabar	0x61	a	]F0
Code 11	0x68	h	]H1
Code 128(Including GS1 128)、GS1-128	0x6A	j	]C0
ISBT 128	0x6A	j	]C0
Code 32	0x3C	<	]X0
Code 39	0x62	b	]A0
Code 93	0x69	i	]G0
EAN			
EAN-13(including ISBN)	0x64	d	]E0
EAN-8	0x44	D	]E4
GS1			
GS1 DataBar	0x79	y	]e0
GS1 DataBar Limited	0x7B	{	]e0
GS1 DataBar Expanded	0x7D	}	]e0
2 of 5			

Interleaved 2 of 5	0x65	e	]I0

Matrix 2 of 5	0x6D	m	]X0
Straight 2 of 5 Industrial	0x66	f	]S0
MSI	0x67	g	]M1
UPC			
UPC-A	0x63	c	]E0
UPC-E	0x45	E	]E0
Aztec Code	0x7A	z	]z0
Han Xin	0x48	H	]X0
Codablock F	0x6A	j	]C0
Data Matrix	0x77	w	]d1
PDF417、Micro PDF417	0x72	r	]L0
QR、Micro QR	0x73	s	]Q1

Appendix 2 Control Characters

char	hex	Not converted	value	Keystroke
NUL (Null char.)	0x00	Null	0x00	Ctrl+2
SOH (Start of Header)	0x01	Keypad Enter	0x58	Ctrl+A
STX (Start of Text)	0x02	Caps Lock	0x39	Ctrl+B
ETX (End of Text)	0x03	Null	0x00	Ctrl+C
EOT (End of Transmission)	0x04	Null	0x00	Ctrl+D
ENQ (Enquiry)	0x05	Null	0x00	Ctrl+E
ACK (Acknowledgment)	0x06	Null	0x00	Ctrl+F
BEL (Bell)	0x07	Enter	0x28	Ctrl+G
BS (Backspace)	0x08	Left Arrow	0x50	Ctrl+H
HT (Horizontal Tab)	0x09	Horizontal Tab	0x2b	Ctrl+I
LF (Line Feed)	0x0a	Down Arrow	0x51	Ctrl+J
VT (Vertical Tab)	0x0b	Vertical Tab	0x2b	Ctrl+K
FF (Form Feed)	0x0c	Backspace	0x2a	Ctrl+L
CR (Carriage Return)	0x0d	Enter	0x28	Ctrl+M
SO (Shift Out)	0x0e	Insert	0x49	Ctrl+N
SI (Shift In)	0x0f	Esc	0x29	Ctrl+O
DLE (Data Link Escape)	0x10	F11	0x44	Ctrl+P
DC1 (XON) (Device Control 1)	0x11	Home	0x4a	Ctrl+Q

DC2 (Device Control 2)	0x12	Print Screen	0x46	Ctrl+R
DC3 (XOFF) (Device Control 3)	0x13	Delete	0x4c	Ctrl+S
DC4 (Device Control 4)	0x14	tab+shift	0x2b,0xe1	Ctrl+T
NAK (Negative Acknowledgement)	0x15	F12	0x45	Ctrl+U
SYN (Synchronous Idle)	0x16	F1	0x3a	Ctrl+V
ETB (End of Trans. Block)	0x17	F2	0x3b	Ctrl+W
CAN (Cancel)	0x18	F3	0x3c	Ctrl+X
EM (End of Medium)	0x19	F4	0x3d	Ctrl+Y
SUB (Substitute)	0x1a	F5	0x3e	Ctrl+Z
ESC (Escape)	0x1b	F6	0x3f	Ctrl+[
FS (File Separator)	0x1c	F7	0x40	Ctrl+\
GS (Group Separator)	0x1d	F8	0x41	Ctrl+]
RS (Request to Send)	0x1e	F9	0x42	Ctrl+6
US (Unit Separator)	0x1f	F10	0x43	Ctrl+-

Appendix 3 ASCII Characters

Characters in yellow ground are control characters; characters in white ground are

visible characters.

bin	Dec	Hex	char
0	0	0	NUL (NULL)
1	1	1	SOH (Start Of Headling)
10	2	2	STX (Start Of Text)
11	3	3	ETX (End Of Text)
100	4	4	EOT (End Of Transmission)
101	5	5	ENQ (Enquiry)
110	6	6	ACK (Acknowledge)
111	7	7	BEL (Bell)
1000	8	8	BS (Backspace)
1001	9	9	HT (Horizontal Tab)
1010	10	0A	LF/NL(Line Feed/New Line)
1011	11	0B	VT (Vertical Tab)
1100	12	0C	FF/NP (Form Feed/New Page)
1101	13	0D	CR (Carriage Return)
1110	14	0E	SO (Shift Out)

1111	15	0F	SI (Shift In)
10000	16	10	DLE (Data Link Escape)
10001	17	11	DC1/XON (Device Control 1/Transmission On)
10010	18	12	DC2 (Device Control 2)
10011	19	13	DC3/XOFF (Device Control 3/Transmission Off)
10100	20	14	DC4 (Device Control 4)
10101	21	15	NAK (Negative Acknowledge)
10110	22	16	SYN (Synchronous Idle)
10111	23	17	ETB (End of Transmission Block)
11000	24	18	CAN (Cancel)
11001	25	19	EM (End of Medium)
11010	26	1A	SUB (Substitute)
11011	27	1B	ESC (Escape)

11100	28	1C	FS (File Separator)
11101	29	1D	GS (Group Separator)
11110	30	1E	RS (Record Separator)
11111	31	1F	US (Unit Separator)
100000	32	20	(Space)
100001	33	21	!
100010	34	22	"
100011	35	23	#
100100	36	24	$
100101	37	25	%
100110	38	26	&
100111	39	27	'
101000	40	28	(
101001	41	29	)
101010	42	2A	*
101011	43	2B	+
101100	44	2C	,
101101	45	2D	-
101110	46	2E	.
101111	47	2F	/

110000	48	30	0
110001	49	31	1
110010	50	32	2
110011	51	33	3
110100	52	34	4
110101	53	35	5
110110	54	36	6
110111	55	37	7
111000	56	38	8
111001	57	39	9
111010	58	3A	:
111011	59	3B	;
111100	60	3C	<
111101	61	3D	=
111110	62	3E	>
111111	63	3F	?
1000000	64	40	@
1000001	65	41	A
1000010	66	42	B
1000011	67	43	C

1000100	68	44	D
1000101	69	45	E
1000110	70	46	F
1000111	71	47	G
1001000	72	48	H
1001001	73	49	I
1001010	74	4A	J
1001011	75	4B	K
1001100	76	4C	L
1001101	77	4D	M
1001110	78	4E	N
1001111	79	4F	O
1010000	80	50	P
1010001	81	51	Q
1010010	82	52	R
1010011	83	53	S
1010100	84	54	T
1010101	85	55	U
1010110	86	56	V
1010111	87	57	W

1011000	88	58	X
1011001	89	59	Y
1011010	90	5A	Z
1011011	91	5B	[
1011100	92	5C	\
1011101	93	5D	]
1011110	94	5E	^
1011111	95	5F	_
1100000	96	60	`
1100001	97	61	a
1100010	98	62	b
1100011	99	63	c
1100100	100	64	d
1100101	101	65	e
1100110	102	66	f
1100111	103	67	g
1101000	104	68	h
1101001	105	69	i
1101010	106	6A	j
1101011	107	6B	k

1101100	108	6C	l
1101101	109	6D	m
1101110	110	6E	n
1101111	111	6F	o
1110000	112	70	p
1110001	113	71	q
1110010	114	72	r
1110011	115	73	s
1110100	116	74	t
1110101	117	75	u
1110110	118	76	v
1110111	119	77	w
1111000	120	78	x
1111001	121	79	y
1111010	122	7A	z
1111011	123	7B	{
1111100	124	7C	|
1111101	125	7D	}
1111110	126	7E	~
1111111	127	7F	DEL (Delete)

Revision

Version	Description	Date
V1.0	Initial Release	2023.06.08