TM-T2O ESC/POS Quick Reference

ESC/POS[°] Command System

EPSON ESC/POS is a proprietary POS printer command system based on the escape sequence and includes patented or patent pending commands. ESC/POS is compatible with most type of EPSON POS printers and displays. ESC/POS is designed to reduce the processing load on the host computer in POS environments. It comprises a set of highly functional and efficient commands and also offers the flexibility to easily make future upgrades.

Aim of the Quick Reference

Quick Reference is a guide to using ESC/POS command to control the printer.

Command Notation

- RT : real-time command (executed as soon as received)
- fn= : function number of the command
- Numbers are written in decimal numeral.
- *n* specifies 1 byte parameter in the range 0–255.
- *nL*, *nH* specify 1 word (2 bytes) parameter as (*nL*+ *n*×256) in the range 0–65,535.
- *pL*, *pH* specify the number of parameters after *pH* as (*pL*+*pH*×256) in the range 1–65,535
- *p1*, *p2*, *p3*, *p4* specify the number of parameters after *p4* as (*p1+p2*×256+*p3*×65,536+*p4*×16,777,216) in the rage 1–4,294,967,295.
- *kc1*, *kc2* specify key code (2 bytes) of NV graphics or download graphics. Each range of *kc1* and *kc2* is 32–126.
- Control codes are as follows:



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Print Commands

- In page mode, these commands only move the print position and do not execute actual printing.
- LF Prints data and feeds one line.
- CR Functions the same as LF when auto line feed is enabled. CR is ignored when auto line feed is disabled or when the serial interface model is used.
- **ESC J** *n* Prints data and feeds paper *n* dots.
- **ESC d n** Prints data and feeds paper **n** lines.

Line Spacing Commands –

- **ESC 2** Selects default line spacing.
- **ESC 3** *n* Sets line spacing to *n* dots.

Character Commands –

ESC SP n Sets right-side character spacing to **n** dots. ESC – n Selects underline. n = 0: underline off, n = 1: 1-dot width, n = 2: 2-dot width ESC E n Turns emphasized character On or Off. n = odd: On, n = even: Off ESC G n Turns double-strike character On or Off. n = odd: On, n = even: Off ESC M n Selects a character font. n = 0, "0": Font A, n = 1, "1": Font B GS!n Selects character size (height/width magnification). Upper 4 bits of *n*: width magnification Lower 4 bits of *n*: height magnification The both can be set $0(\times 1)$ to $7(\times 8)$ GS b n Turns smoothing On or Off for magnified characters. n =odd: On, n =even: Off GS B n Turns white/black reverse print On or Off for characters. n = odd: On, n = even: OffTurns upside-down print mode On or Off in standard ESC { n mode. n = odd: On, n = even: Off ESC V n Turns 90° clockwise rotation On or Off for characters in standard mode. *n* = 1, 2, "1", "2": On, *n* = 0, "0": Off ESC & 3 c1 c2 [x1 d1...d(3 × x1)]...[xk d1...d(3 × xk)] Defines user-defined characters for character code: c1 to c2 of the current font.

> x = width of the defined pattern $d1...d(3 \times x)$ = pattern data for a character

ESC % *n* Selects or cancels user-defined character set. n = odd: Select, n = even: Cancel **Character Commands (continued)**

ESC ? n Cancel the user-defined character and return the font pattern to the resident one for the current font. *n* = character code to be cleared the user-defined font

ESC t *n* Selects page *n* from the character code table.

n	code t	able			n	code table
0	PC437	: USA	A, Standard Europe		34	PC855: Cyrillic
1	Katak	ana		35	PC861: Icelandic	
2	PC850	PC850: Multilingual				PC862: Hebrew
3	PC860): Por	uguese		37	PC864: Arabic
4	PC863	: Can	adian-French		38	PC869: Greek
5	PC865	5: Nor	dic		39	ISO8859-2: Latin2
11	PC851	: Gre	ek		40	ISO8859-15: Latin9
12	PC853	: Tur	kish		41	PC1098: Farsi
13	PC857	: Tur	kish		42	PC1118: Lithuanian
14	PC737	: Gre	ek		43	PC1119: Lithuanian
15	ISO88	59-7:	Greek		44	PC1125: Ukrainian
16	WPCI	252			45	WPC1250: Latin2
17	PC866	5: Cyr	illic #2		46	WPC1251: Cyrillic
18	PC852	2: Lati	n2		47	WPC1253: Greek
19	PC858	: Eur	o		48	WPC1254: Turkish
20	KU42	Thai			49	WPC1255: Hebrew
21	TIS11	: Thai			50	WPC1256: Arabic
26	TIS18	: Thai			51	WPC1257: Baltic Rim
30	TCVN	I-3: V	ietnamese		52	WPC1258: Vietnamese
31	TCVN	I-3: V	ietnamese		53	KZ-1048: Kazakhstan
32	PC720): Ara	bic		255	User-defined page
33	WPC	75: B	altic Rim			
ESC R	n	Sele	cts an internatio	nal c	hara	cter set by n .
		n	country	n	cour	ntry
		0	USA	9	Nor	way
		1	France	10	Den	mark II
		2	Germany	11	Spai	n II
		3	U.K.	12	Lati	n America
		4	Denmark I	13	Kore	ea
		5	Sweden	14	Slov	enia/ Croatia
		6	Italy	15	Chii	na
		7	Spain I	16	Viet	nam
		8	Japan	17	Aral	bia

Print Position Commands

HT Moves print position to the next horizontal tab position.

ESC D n1...nk NUL

Sets tab stops at **n1** to **nk** character columns.

GS L nL nH

Sets left margin in standard mode.

 $nL + nH \times 256$: number of dots for left margin

GS W nL nH

Sets print area width in standard mode.

 $nL + nH \times 256$: number of dots for print area width

- **ESCan** Aligns all data in one line to the selected layout in standard mode.
 - n = 0, "0": Left justification n = 1, "1": Centering n = 2, "2": Right justification

EPSON[®] EXCEED YOUR VISION Print Position Commands (continued)

ESC \$ nL nH

Moves print position from the left edge of print area. *nL* + *nH*×256: absolute print position

ESC \ nL nH

Moves the print position from current position. $nL + nH \times 256$: relative print position (-32,768-32,767)

Panel Button Commands -

ESC c 5 *n* Enables or disables the panel buttons. n = odd: Disable, n = even: Enable

Mechanism Control Commands -

GS V m Executes paper cut. m = 0, "0", 1, "1"**GS V** *m n* Executes paper cut after feeding *n* dots. *m* = "A" or "B"

Bit Image Commands -

ESC * m nL nH d1...dk

Stores bit image data in the print buffer.

 $nL + nH \times 256$: number of horizontal dots

d : ima	ge data (colur	nn format)			
m	vertical density	horizontal density	vertical dots	number of <i>d</i> (= <i>k</i>)	
0	202/2 dni	203/2 dpi	9 data	<i>nL</i> + <i>nH</i> ×256	
1	205/5 dpi	203 dpi	8 dots		
32	202 dui	203/2 dpi	24 data	3×(<i>nL</i> + <i>nH</i> ×256)	
33	205 api	203 dpi	24 dois		

Graphics Commands



NV Graphics Commands (continued)

GS (LpLpH 48 67 48 kc1 kc2 1 xL xH yL yH 49 d1...dk or fn=67 GS 8 L p1 p2 p3 p4 48 67 48 kc1 kc2 1 xL xH yL yH 49 d1...dk Defines NV graphics data to key code (kc1, kc2). $xL + xH \times 256$: number of horizontal dots $yL + yH \times 256$: number of vertical dots fn=69 GS (L604869kc1kc2xy Prints NV graphics of key code (kc1, kc2) to the magnified size specified by **x**, **y**. x = 1 or 2: horizontal magnification y = 1 or 2: vertical magnification GS(L204848 or GS(L20480 fn=48 Transmits the entire capacity of NV graphics area. Send data: "70" + Size + NUL

Size: "0"-"99999999" [bytes]

GS(L204851 or GS(L20483

Transmits the unused capacity of NV graphics area. Send data: "71" + Size + NUL Size: "0"-"99999999" [bytes]

GS (L 4 0 48 64 "KC"

Transmits the key code list for defined NV graphics. Send data: "7r" + Is + [kc1,kc2]... + NUL Is = 65: following send data group exists, Is = 64: not exist [kc1,kc2]...: strings of key codes (0-80 bytes length)

GS (L 5 0 48 65 "CLR"

Deletes all NV graphics data.

GS (L 4 0 48 66 kc1 kc2

Deletes NV graphics data of key code (*kc1*, *kc2*).

Download Graphics Commands

GS D 48 83 48 kc1 kc2 48 49 d1...dk fn=83 Converts Windows BMP data and defines download graphics data to key code (kc1, kc2).

GS (LpLpH 48 83 48 kc1 kc2 1 xL xH yL yH 49 d1...dk or fn=83

GS8Lp1p2p3p4488348kc1kc21xLxHyLyH49d1...dk

Defines download graphics data to key code (kc1, kc2).

 $xL + xH \times 256$: number of horizontal dots $vL + vH \times 256$: number of vertical dots

GS (L 6 0 48 85 kc1 kc2 x y

Prints download graphics of key code (kc1, kc2) to the magnified size specified by x, y.

- x = 1 or 2: horizontal magnification
- y = 1 or 2: vertical magnification

GS(L204852 or GS(L20484

Transmits the unused capacity of download graphics area. Send data: "72" + Size + NUL Size: "0"-"99999999" [bytes]

Download Graphics Commands (continued)

GS (L 4 0 48 80 "KC"

Transmits the key code list for download graphics.

fn=80

fn=81

fn=82

fn=62

fn=63

fn=64

fn=65

fn=61

Send data: "7s" + Is + [kc1, kc2]... + NUL $\underline{Is} = 65$: following send data group exists, $\underline{Is} = 64$: not exist [kc1,kc2]...: strings of key codes (0-80 bytes length)

GS (L 5 0 48 81 "CLR"

Deletes all download graphics data.

GS (L 4 0 48 82 kc1 kc2

Deletes download graphics data of key code (kc1, kc2).

Logo Print Commands

fn=51

fn=64

fn=65

fn=66

fn=85

fn=52

- User-defined NV graphics can be set to top or bottom logo.
- Top logo is printed in the events enabled by **FS (E** (*fn*=64).
- · Bottom logo is printed when paper cut command is executed.

FS (E60622kc1kc2an

Sets for top logo printing in NV memory.

- *kc1*, *kc2*: user-defined key code for the logo *a*: logo position ("0"=left, "1"=center, "2"=right)
- *n*: number of lines to be removed after the logo print

FS (E 5 0 63 2 kc1 kc2 a

Sets for bottom logo printing in NV memory.

kc1, *kc2*: user-defined key code for the logo *a*: logo position ("0"=left, "1"=center, "2"=right)

FS (EpLpH <u>64</u> 2 [a1 n1]...[ak nk]

Enables or disables auto top logo printing.

- function а
- Prints while feeding paper to cut position 48
- Prints at power-on 64
- Prints when Roll paper cover is closed 65
- Prints when buffers are cleared in recovery from error 66
- Prints after fed paper with Feed button 67
- n = "0": Disables, n = "1": Enables

FS(E40652an

- Enables or disables logo printing temporarily.
- a = "0": Top logo *n* = "0": Enable a = "1": Bottom logo *n* = "1": Disable
- FS(E30612c

Transmits set values for top or bottom logo printing. c = "0": Set values for top logo

c = "1": Set values for bottom logo

- c = "2": Extended set values for top logo
- *c* send data
- $"7H202" + \underline{kc1} + \underline{kc2} + \underline{pos} + \underline{line} + \text{NUL}$ "1" "7H212" + $\overline{kc1}$ + $\overline{kc2}$ + \underline{pos} + NUL
- "2" "7H222" + fa + fp + fc + fe + ff + NUL
- *kc1*, *kc2*: user-defined key code for the logo
- pos: logo position ("0"=left, "1"=center, "2"=right)

line: number of removed lines after logo print ("0"–"255")

- fa, fp, fc, fe, ff: flag for top logo print ("0"=disabled, "1"=enabled)
 - while feeding to cut position fa:
 - at power-on <u>fp</u>:
 - when cover closed fc:
 - when recovered from error with buffer clear fe:
 - when fed paper by switch ff:

Logo Print Commands (continued)

FS (E 6 0 <u>60</u> 2 c "CLR"

Clears set values in NV memory for top or bottom logo printing.

fn=60

 $\boldsymbol{c} = "0": \text{Top logo}, \quad \boldsymbol{c} = "1": \text{Bottom logo}$

Bar Code Commands —

GS k m d1...dk NUL

Prints bar code. **NUL** terminates the data.

m	bar code system	number of $d (=k)$
0	UPC-A	11 or 12
1	UPC-E	6, 7, 8, 11 or 12
2	JAN13 / EAN13	12 or 13
3	JAN8 / EAN8	7 or 8
4	CODE39	1 or more
5	ITF	even
6	CODABAR (NW-7)	2 or more

GS k m n d1...dn

GS h n

Prints bar code. *n* specifies the data length.

m	bar code system	number of $d (=k$
"A"	UPC-A	11 or 12
"B"	UPC-E	6, 7, 8, 11 or 12
"C"	JAN13 / EAN13	12 or 13
"D"	JAN8 / EAN8	7 or 8
"Е"	CODE39	1 or more
"F"	ITF	even
"G"	CODABAR (NW-7)	2 or more
"H"	CODE93	1-255
"I"	CODE128	2-255
"J"	GS1-128	2-255
"K"	GS1 DataBar Omnidirectional	13
"L"	GS1 DataBar Truncated	13
"M"	GS1 DataBar Limited	13
"N"	GS1 DataBar Expanded	2-255

GS w n Sets bar width of bar code. n = 2-6 (thin-thick)

GS H *n* Selects print position of HRI characters.

n = 0, "0": Not printed *n* = 1, "1": Above the bar code

- n = 2, "2": Below the bar code
- n = 3, "3": Both above and below the bar code

n = 0, "0": Font A, *n* = 1, "1": Font B

GS f *n* Selects font for the HRI characters.

- Two-Dimensional Code Commands -

GS (k pL pH cn fn [parameters]

Stores, prints symbol data, or configure the settings.

cn = 48: PDF417 49: QR Code 50: MaxiCode 51: 2-dimensional GS1 DataBar 52: composite symbology Two-Dimensional Code Commands (continued)

4	inction	fre		cn				
lunction		jn	48	49	50	51	52	
Store s	ymbol data in	80	n	1 d1dl	k	m n d1dk	m a b d1dk	
memor	у	80			((m =48)		
Print 2	D symbol	81			m	(<i>m</i> =48)		
Send 2I	O symbol size	82			m	(m =48)		
	columns	65	n	n1 n2	n			
	rows	66	n					
	module	67	n	n		n	n	
	row height	68	n					
Setting	error correction	69	m n	n				
	options	70	m					
	maximum width	71				nL nH	nL nH	
	font	72					n	
	[paramete	rs] (bla	ank = in	valid co	mman	d) ←		
Send	data of GS (k) "7" + <u>1</u>	fn=82 d + X): + 31 + <u>Y</u>	(+ 31 +	"1" + 3	1 + <u>Fl</u> + <u>Ec</u> + 1	NUL	
		numt	ber			cn		
		of here	40	10	50	51	52	

number				cn	
of bytes	48	49	50	51	52
1	"/"	"6"	"7"	"O"	"P"
1-5	"0"–"99999"				
1-5	"0"–"999999"			9"	
1	"0" = printable, "1" = not printable		not printable		
0 or 4	N/A (0 byte) "0000"-"		"0000"–"99999"		
	number of bytes 1 1-5 1-5 1 0 or 4	number of bytes 48 1 "/" 1-5	number	number r of bytes 48 49 50 1 "/" "6" "7" 1-5 "0" "1" 1-5 "0" 10" 1 "0" = printable, 0 or 4	number Ch of bytes 48 49 50 51 1 "/" "6" "7" "O" 1-5 "0"-"9999 1-5 "0"-"99999 1 1-5 "0"= printable, "1"= 0 or 4 N/A (0 byte)

- Status Commands —

DLE EOT n

Transmits real-time status as 1 byte.

n = 1: Printer status (binary: 0000xx00)

- bit 2 = 1: Drawer kick-out connector pin 3: High
- = 0: Drawer kick-out connector pin 3: Low
- bit 3 = 1: in Offline, 0: in Online
- n = 2: Offline cause status (0xx0xx00)
 - bit 2 = 1: Cover is open, 0: closed
 - bit 3 = 1: on feeding paper by switch, 0: not

RT

- bit 5 = 1: Printing stopped due to paper end, 0: not
- bit 6 = 1: in Error state, 0: not
- n = 3: Error cause status (0xx0x000)
 - bit 3 = 1: Autocutter error, 0: not
 - bit 5 = 1: Unrecoverable error, 0: not
 - bit 6 = 1: Automatically recoverable error, 0: not
- n = 4: Paper end sensor status (0xx00000)
 - \hat{b} it 5, 6 = 1: Paper end, 0: paper present

Status Commands (continued)

GS r n	 Transmits status specified by <i>n</i> as 1 byte after completion of prior print or command. <i>n</i> = 1, "1": Paper sensor status Status = 0: Paper end sensor: paper present Status = 12: Paper end sensor: not present <i>n</i> = 2, "2": Drawer kick-out connector status Status = 0: Drawer kick-out connector pin 3: Low Status = 1: Drawer kick-out connector pin 3: High 					
GS a n	Enables or	disables basic ASB (Automatic Status Back).				
	$\begin{array}{c cccc} \underline{bit \ of \ n} & \underline{St} \\ 0 & D \\ 1 & O \\ 2 & \underline{E} \\ 3 & \underline{P} \end{array}$	<u>atus (1: enable, 0: disable)</u> rawer kick-out connector status nline/offline status rror status aper end sensor status				
	ASB status binary (x=0 or 1)					
	first byte	0xx1 xx00				
		bit 2 = 1: Drawer kick-out connector pin 3: High				
		= 0: Drawer kick-out connector pin 3: Low				
		bit 3 = 1: in Offline, 0: in Online				
		bit 5 = 1: Cover is open, 0: closed				
		bit 6 = 1: on feeding paper by switch, 0: not				
	2nd byte	0xx0 x000				
		bit 3 = 1: Autocutter error, 0: not				
		bit 5 = 1: Unrecoverable error, 0: not				
		bit 6 = 1: Automatically recoverable error, 0: not				
	3rd byte	0110 xx00				
		bit 2, 3 = 1: Paper end, 0: paper present				
	4th byte	0110 1111				

GS:	Starts or ends macro definition.					
GS ^ rtm	Executes defined macro.					
	r:repeat times $t:$ interval time (×100msec) $m = 0:$ repeat continuously $m = 1:$ repeat by pressing the Feed button					
Miscellane	ous Commands					
ESC @	Initializes printer.					
DLE ENQ n	Recovers from recoverable errors	Ľ				
	n = 1: Recovers and starts printing from the line where the error occurred	ər				
	n = 2: Recovers after clearing both receive and print buffers					
GS (D <i>pL p</i>	b H 20 [a1 b1][ak bk] Enables or disables real-time command. a = 1: DLE DC4 (fn=1) b = 0, "0": Disable a = 2: DLE DC4 (fn=2) b = 1, "1": Enable					
ESC = n	Enables or disables the printer device. n = 1, 3: Enable, $n = 0$: Disable					

RT

Miscellaneous Commands (continued)

ESC p m t1 t2

Outputs pulse to Drawer kick-out port.

m = 0, "0": connector pin 2, *m* = 1, "1": connector pin 5 *t1*: on time ($\times 2ms$), *t2*: off time ($\times 2ms$)

DLE DC4 1 m t

Outputs pulse to Drawer kick-out port in real-time.

m = 0: connector pin 2, m = 1: connector pin 5 t = 1-8: On time / Off time (×100 ms)

GS (H 6 0 48 48 d1 d2 d3 d4

Transmits process ID specified by (d1, d2, d3, d4) after execution of prior print or command. *d*=32-126: visible character Send data: 55 + 34 + *d*1 + *d*2 + *d*3 + *d*4 + NUL

GSIn Transmits printer ID or printer information.

n	information	send data
1, "1"	Printer model ID	99
2, "2"	Type ID	2: supported Multi-byte character
		3: not supported
35	Column emulation	"=#0"+NUL: normal mode
	mode	"=#1"+NUL: 42 column mode
65	Firmware version	95+ <u>strings</u> +NUL
		depends on firmware
66	Manufacturer	95+"EPSON"+NUL
67	Printer name	95+"TM-T20"+NUL
68	Serial number	95+Serial number (10 bytes)+NUL
69	Type of mounted	95+strings+NUL
	additional fonts	depends on printers
		ex.) "KANJI JAPANESE"

GS q 0 0 nL nH

Initialize resettable maintenance counter.

nL + nH ×256	counter	unit
20	Number of lines fed	lines
21	Number of head energizations	times
22	Number of lines fed (after the print head was replaced)	lines
50	Number of autocutter operations	times
70	Duration of printer operation	hours

GS q 2 0 nL nH

Transmits value of resettable or cumulative maintenance counter.

		<i>nL</i> + <i>nH</i> ×256		
counter	unit	resettable	cumulative	
Number of lines fed	lines	20	148	
Number of head energizations	times	21	149	
Number of lines fed (after the print head was replaced)	lines	22	150	
Number of autocutter operations	times	50	178	
Duration of printer operation	hours	70	198	

Send data: 95 + Value + NUL

Value: "0"-"9999999999" (1-10 bytes length)

GS (K 2 0 50 m

Selects print speed.

m = 0, "0": speed customized by **GS (E** (fn = 5, a = 6)

m = 1-13 (slow-fast)

Miscellaneous Commands (continued)

ESC (A 3 0 97 n c

Sounds optional external buzzer. *n* specifies the sound pattern. (n = 1-7)

c specifies the repeat times. (c = 0: infinitely)

DLE DC4 3 0 0 0 1 0

Stops sounding optional external buzzer and transmits 4 bytes: 55, 84, 64, 0.

fn=97

fn=3 RT

fn=2 RT

fn=8 RT

DLE DC4 2 1 8

fn=1 RT

fn=48

Executes printer power-off sequence and transmits 3 bytes: 59, 48, 0.

DLE DC4 8 1 3 20 1 6 2 8

Clears both receive and print buffers, and transmits 3 bytes: 55, 37, 0, as the Clear response.

Page Mode Commands -

- Page mode is a free layout mode. Any print data can be put in any place on the print area and be printed by FF or ESC FF command.
- ESC L Switches from standard mode to page mode.
- ESC S Switches from page mode to standard mode.
- FF. Prints all data and switches from page mode to standard mode.
- ESC FF Prints all data in page mode. After printing, the printer does not clear the buffered data, the print position, and values set by other commands.

ESC W xL xH yL yH dxL dxH dyL dyH

Sets the print area size and the logical origin in page mode.

- $xL + xH \times 256$, $yL + yH \times 256$: position of the logical origin
- $dxL + dxH \times 256$: width of the print area
- $dyL + dyH \times 256$: height of the print area
- ESC T n Selects the print direction and the starting position in page mode.

n	print direction	starting position
0, "0"	left to right	upper left
1, "1"	bottom to top	lower left
2, "2"	right to left	lower right
3, "3"	top to bottom	upper right

GS \$ nL nH

In page mode, moves the vertical print position from the starting position set by ESC T.

 $nL + nH \times 256$: absolute print position

GS \ nL nH

fn=50

- In page mode, moves the vertical print position from the current position.
- *nL* + *nH*×256: relative print position (-32,768-32,767)
- CAN Cancels print data in page mode.

- Other Commands -• For details, refer to TM-T20 product specification or ESC/POS Application Programming Guide for Paper Roll Printers. • OC : obsolete command **Character Commands** ESC! Selects character font and styles. **Miscellaneous Commands GS P** Sets horizontal and vertical motion units. GS(A Executes test print. **Bit Image Commands** GS v 0 OC Prints raster bit image **NV Bit Image Commands** FS q Defines NV bit image in NV graphics area. OC OC FS p Prints NV bit image defined by FS q. **Downloaded Bit Image Commands** GS * OC Defines downloaded bit image. OC GS / Prints downloaded bit image defined by GS * **Status Commands** ESC u Transmits peripheral device status as 1 byte. OC ESC v Transmits status of paper sensor as 1 byte. OC **Mechanism Control Commands** OC **ESC** i Executes paper cut. ESC m Executes paper cut. OC **Customize Commands** FSg1 Writes data to NV user memory. OC OC FS a 2 Transmits data in NV user memory. **User Setup Commands GS (E** (*fn*=1) Enters User setting mode and transmits the mode change notice. **GS (E** (*fn*=2) Ends User setting mode and performs software reset. GS (E (fn=3) Sets memory switch setting values. **GS (E** (*fn*=4) Transmits memory switch setting values. **GS (E** (*fn*=5) Sets customized setting values. **GS (E** (*fn*=6) Transmits customized setting value. **GS (E** (*fn*=11) Sets configuration item for serial interface. GS (E (fn=12) Transmits configuration value. **GS (E** (fn=15) Selects configuration item: Class of USB interface.
- **GS (E** (*fn*=16) Transmits configuration value for Class of USB interface.