Powertip Mono Character LCD Numbering System

P	C	nn	nn	x	x	x	-	x	nn	-	x	-	nn
1	2	3	4	5	6	7		8	9		10		11

Field	Code value	Description	Note
1	P	Powertip products	
2	C	Character type	Module type
	G	Graphic type	
3	08,16,20,24 …	Characters per line (for character modules)	Characters per line or row dots
	120,122,128 …	Row dots (for graphic modules)	
4	01,02,03,04 …	Lines (for character modules)	Lines or column dots
	32~240 …	Column dots (for graphic modules)	
5	A	Without backlight	Backlight mode (Type+Color)
	B	EL Backlight Blue-green	
	D	EL Backlight Yellow-green	
	E	EL Backlight White	
	F	CCFL Backlight White	
	L	LED Backlight Yellow-green	
	M	LED Backlight Amber	
	N	LED Backlight Red	
	O	LED Backlight Orange	
	P	LED Backlight Pure-green	
	S	LED Backlight Green	
	T	Double LED Backlight	
	U	LED Backlight Blue	
	V	LED Backlight Blue White	
	W	LED Backlight White	
	R	Triple LED Backlight	
	Y	LED Backlight Yellow	
	Q	LED Backlight White and Red	
6	R	Standard (Through hole, cable, connector and etc.)	Connector type
	Y	Straight pin-header	
	Z	Right angle pin-header	
7	None	TN Positive Gray	LCD Mode (Type+Color)
	N	TN Negative Blue	
	J	HTN Negative (Black/Blue)	
	P	PBT(Pure Black Tech.)	
	Q	E-TN(Enhanced TN)	
	H	HTN Positive Gray	
	S	STN Positive Gray	
	U	STN Positive Yellow-green	
	M	STN Negative Blue	
	G	ASTN(Automotive STN)	
	W	E-STN(Enhanced STN)	
	F	FSTN Positive White	
	T	FSTN Negative Black	
	Y	E-FSTN(Enhanced FSTN)	

8	A~Z	Series number	
9	00～ZZ	IC manufacturer/character pattern /total solution series number	Table A
	NN	Without controller	
10	A~Z	Refer to display viewing features system	Table B
11	NO Code value	Standard product (Meet the ROHS specification, Code is Q)	
	01～99	Special Code	Version

Table A

S*	SUMSUNG LSI	T*	TOSHIBA LSI	Y*	SANYO LSI
M*	MOTOROLA LSI	E*	EPSON LSI	H*	HITACHI LSI
N*	NOVATEK	W*	SITRONIX LSI	A*	APANPEC LSI
R*	SHARP LSI	P*	PHILIPS LSI	J*	JRC LSI
U*	UMC GROUP LSI	Z*	HOTEK LSI	O*	OKI LSI
B*	RAIO	C*	ASLIC	F*	TOMATO LSI
G*	AVANT	L*	SUNPLUS LSI		

Table B

Operation Temperature		Normal Temp. (NT):0°C~50°C				Wide Temp. (WT):-20°C~70°C			
Viewing direction		6:00	3:00	12:00	9:00	6:00	3:00	12:00	9:00
Polarizer	Reflective	A	M	D	P	G	S	J	V
	Transflective	B	N	E	Q	H	T	K	W
	Transmissive	C	O	F	R	I	U	L	X

Others: 「Z」(include wild viewing angle)