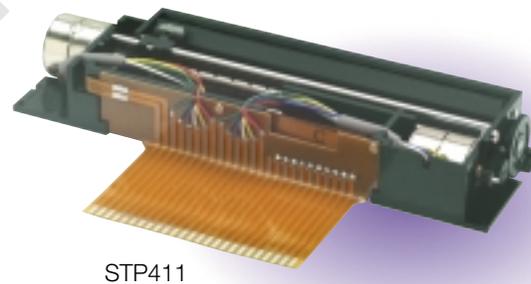
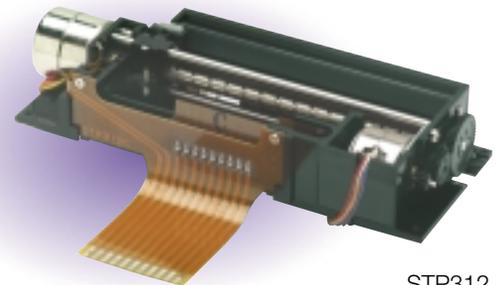
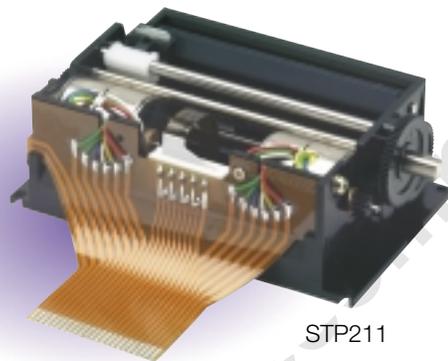


STP Series

STP SERIES PRINTERS

STP Series thermal printers offer the highest reliability, quality and performance at a low cost to suit an array of applications. An advanced dual-step motor system supports independent paper feed and head movement functions for greater efficiency and dependability in a compact, lightweight design. With features such as bi-directional printing and logic seeking, STP Series printers are also fast-printing at speeds up to 1.9 character lines per second. Additionally, STP Series printers can support compressed or expanded print, international character sets and complete graphics for a versatile thermal printer solution that meets the highest standards for performance and value.

- Simple operation
- High quality character and graphic printing
- Advanced mechanism design for increased reliability
- Silent operation assured by stepping motor drive
- Up to 4 dots/mm
- Compact, lightweight design
- Independent head and paper feed functions and shortest distance print



Model		STP211-144	STP211-192	STP312-256	STP411-256	STP411-320
Dot composition		8 x 144	8 x 192	8 x 256		9 x 320
Printing	Method	Thermal serial head system				
	Direction	Bi-directional character				
	No. of characters/line	24	32	42		40
	Width (mm)	46.1		64	89.6	
	Paper feed pitch (mm)	0.35			0.28	
	Speed (cl/s)	1.9	1.4	1.0		0.78
	Speed (cps)	46		42	31	
Detection	Home position	Mechanical switching system				
Dimensions (WxDxH) mm		80 x 47 x 27		126.5 x 45 x 20.4	153 x 44.5 x 20	
Weight (g)	Approx.	110		120	135	
Power supply	Operating voltage	5 VDC ± 0.5				
	Current consumption	3.5 A max.				
Service life	MCTF	500,000 lines				
	Failure rate	1 x 10E-6/line max.				
Operating temperature (°C)		0 to 50				
Storage environment (°C)		-20 to 60				
Paper	Width (mm)	58 +0 / -1		80 +0 / -1	112 +0 / -1	
	Path	Curve				
	Thickness (µm)	65 ± 5				

INTERFACE BOARDS

IF0121-GCB AND IF4112-GCB INTERFACE BOARDS FOR STP SERIES

The IF0121-GCB interface board is designed for the STP Series. It can drive all three models of the STP Series and print ANK, international characters and graphics. Graphics and characters can be printed on the same line and both 8-bit parallel and serial (RS-232C) input are available.

The IF4112-GCB interface board is used specifically for the STP411-320 thermal serial printer. Compressed and expanded characters and international character sets can be printed, allowing graphics and characters to be printed on the same line. It also supports both 8-bit parallel and serial (RS-232C) input.

- Condensed/double-width printing
- Single/double density bit image graphics
- Super/subscript printing
- Inverted printing



Model		IF0121-GCB	IF4112-GCB
Applicable mechanism		All STP Series	STP411G-320
CPU		M50747-753SP	M50747-500SP
Input control method		8-bit parallel (modified Centronics) Serial (RS-232)	
Character type		256-Alphanumeric, graphic, International, special	
Dimensions (WxDxH) mm		130 x 118 x 22	120 x 119 x 22
Weight (g)		105	95
Operating voltage (Vcc)		5 VDC \pm 0.5 / \pm 12VDC 1.2 for serial	
Current consumption (Icc)	Standby mode	Max. 55 mA @ 5VDC	Max. 40 mA @ 5VDC / Max. \pm 12VDC @ 12mA
	Printing	Max. 4.0 A @ 5VDC	Max. 3.5 A @ 5VDC / Max. \pm 12VDC @ 12mA
Operating temperature ($^{\circ}$ C)		0 to 50	
Storage temperature ($^{\circ}$ C)		-20 to 60	
Model		M50747-753SP	M50747-500SP
Applicable mechanism		All STP Series	STP411G-320
Package form		64-pin shrink DIP	
Configuration		C-MOS LSI	
Input method		8-bit parallel (Centronics), Asynchronous serial	
Operating voltage (Vcc)		5 VDC \pm 0.5	
Operating frequency (MHz)		8	