

## MICREX-SX Series SPH Releasing Hot Plugging Base with Station Number Setting Function

This is to announce that we have released a hot plugging base board with the station number setting function used for MICREX-SX series SPH.

When the hot plugging base board with the station number setting function is used in conjunction with the deallocation function, if a module fails, it can be replaced without shutting off the power, resulting in increased maintainability.

### 1. Released Models

Part name	Type (Product code)	Specifications
Hot plugging base board incorporating station number setting switch and 13 slots	NP1BS-13D	Number of slots: 13 slots Processor bus: 3 slots
Hot plugging base board incorporating station number setting switch and 11 slots	NP1BS-11D	Number of slots: 11 slots Processor bus: 3 slots
Hot plugging base board incorporating station number setting switch and 8 slots	NP1BS-08D	Number of slots: 8 slots Processor bus: 3 slots

The processor bus is used for the following modules.

Be careful when using two or more modules on the same base.

CPU module, FL-net module, P/PE link module, LE-net, LE-net loop, LE-net loop2 module

The model type NP1BP-13D (with 13 slots and processor bus 10 slots) has been available in the market.

### 2. Date of Release

June 1, 2007

### 3. Product Overview

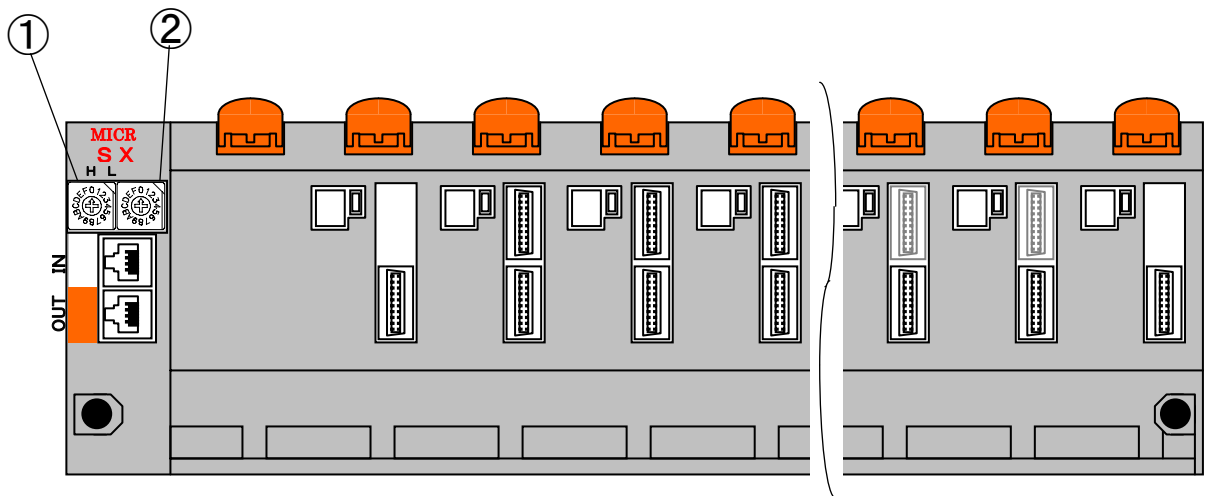
The baseboards with 13 slots, 11 slots, and 8 slots, each of which uses 3 slots for processor bus, were added to the hot plugging baseboards with the station number setting function.

When this base board is used in conjunction with the deallocation function, if a module fails, it can be replaced without shutting off the power, resulting in increased maintainability.

(1) Specifications

Item	Specification			
	NP1BS-13D	NP1BS-11D	NP1BS-08D	NP1BP-13D (Now on sale)
Type	NP1BS-13D	NP1BS-11D	NP1BS-08D	NP1BP-13D (Now on sale)
Number of slots	13	11	8	13
Number of slots with the processor bus	3	3	3	10
Station number setting	The station number of the leading slot is set with the switch.			
Hot plugging	Possible	Possible	Possible	Impossible
External dimensions (mm) (W x H x D)	483x105x31 (Unchanged)	413x105x31 (Unchanged)	308x105x31 (Unchanged)	483x105x31 (Unchanged)
Power requirements	44mA or less	39mA or less	36mA or less	44mA or less
Mass	Approx. 830g	Approx. 715g	Approx. 540g	Approx. 850g

(2) Appearance



(1) Station number setting switch for the first digit

This switch is used to set the first digit of the station number expressed in hexadecimal.

(2) Station number setting switch for the 10th digit

This switch is used to set the 10th digit of the station number expressed in hexadecimal.

(3) CPU module support version

This base board is usable for the CPU modules of the following versions:

NP1PS-32:	V2463 or later
NP1PS-32R:	V2663 or later
NP1PS-74:	V2363 or later
NP1PS-74R/117/117R:	V2663 or later
NP1PS-245R:	V2064 or later
NP1PM-48R/48E/256E:	V2102 or later

#### (4) Notes

##### (1) Unusable module

The following two modules shall not be used because their disconnection from the SX bus may cause a large failure.

- Optical link module (NP1L-OL1/OL2)

The module reset releasing time is shorter than the reset time of the baseboard.

- Standard CPU module (NP1PH-08/16)

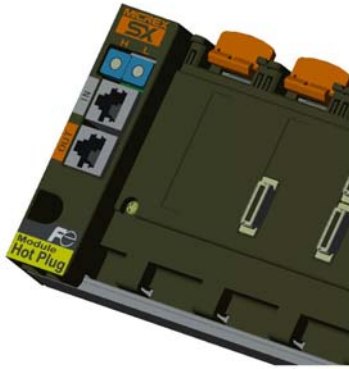
The system startup time is shorter than the base reset time.

In addition, SPH300 (NP1PS-74D) and double CPU modules (NP1PS-117H) require reconstruction of the hardware. For these reasons, the above modules shall not be used.

##### (2) Distinction between the hot plugging base board and the dead plugging base board

The hot plugging base board with the station number setting function and the dead plugging base board with the station number setting function have the same shape.

To distinguish them, the identification seal saying "Module Hot Plug" is attached to the hot plugging base board with the station number setting function below the SX bus cable connector at the left end of the upper mold case.



##### (3) Number of units directly connected with SX bus

The units (such as servo, POD, I/O terminal) receive SX bus transmission power from the hot plugging base board with the station number setting function. Up to 8 units can be connected at a time to each of the IN and the OUT connectors. To the standard baseboard, up to 10 units can be connected.

##### (4) Hot plugging work of the link modules between processors

Processor access error may cause a large system failure. Therefore, plug or unplug the hot-line of the link module (FL-Net, the P/PE link, LE-net) one by one between processors.

##### (5) Tact cycle when the link module is used between processors

Processor access error may cause a large system failure (failure of retry processing). Therefore, set the tact cycle to 3ms or over when using the several link modules between processors.