

Physical Description of M580 Hot Standby CPUs

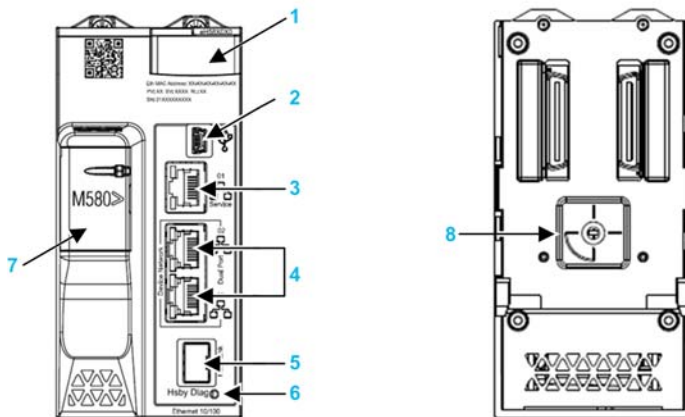
PAC Hot Standby CPU Modules

These M580 CPU modules support M580 Hot Standby systems:

- BMEH582040, BMEH582040H
- BMEH584040
- BMEH586040

CPU Module Front and Back Views

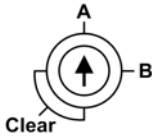
The three Hot Standby CPU modules have the same external hardware features. The front of the module is on the left. The back of the module is on the right:



- 1 LED diagnostic display panel
- 2 Mini-B USB port for module configuration via PC running Unity Pro
- 3 RJ45 Ethernet service port connector
- 4 RJ45 connectors that together serve as a dual port to the Ethernet network
- 5 SFP socket for copper or fiber-optic Hot Standby link connection
- 6 Hot Standby status link LED
- 7 SD memory card slot
- 8 A/B/Clear rotary selector switch, used to designate the PAC as either PAC A or PAC B, or to clear the existing Unity Pro application

Rotary Selector Switch

Use the rotary switch on the back of each M580 Hot Standby CPU to designate the role that the CPU plays in the M580 Hot Standby configuration:



Use the screwdriver provided with the CPU to set the rotary switch according to its role in a Hot Standby system:

Position	Result
A	- Designates the PAC as PAC A (see page 91), as referenced in Unity Pro and the T_M_ECPU_HSBY (see page 82) DDDT. - Assigns the PAC IP address A on Ethernet RIO network.
B	- Designates the PAC as PAC B (see page 91), as referenced in Unity Pro and the T_M_ECPU_HSBY DDDT. - Assigns the PAC IP address B on Ethernet RIO network.
Clear	- Clears the application in the PAC, and places the PAC into the NO_CONF operational state. - If an SD memory card is inserted in the PAC, the application in the card is also cleared. NOTE: Setting the switch for each Hot Standby PAC to the same A/B position can cause a conflict of PAC roles (see page 92).

Clearing CPU Memory

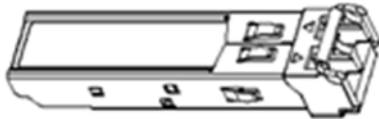
To clear a CPU memory, follow these steps:

Step	Action
1	Set the rotary switch to [Clear] .
2	Power up the PAC.
3	Power down the PAC.
4	Set the rotary switch to [A] or [B] .

When you next power up the PAC, if the remote PAC is primary, the primary PAC transfers the application to the local PAC.

SFP Socket

Each CPU module includes one SFP socket, to which you can connect either a fiber optic or a copper transceiver:



To insert a transceiver:

Step	Action
1	Check that the CPU is powered off.
2	Position the transceiver so that its label is oriented to the left.
3	Press the SFP transceiver firmly into the socket until you feel it snap into place. NOTE: If the SFP transceiver resists, check the orientation of the transceiver and repeat these steps.

To remove a transceiver:

Step	Action
1	Check that the CPU is powered off.
2	Pull out the latch to unlock the transceiver.
3	Pull on the transceiver to remove it.

NOTICE

POTENTIAL EQUIPMENT DAMAGE

Do not Hot Swap the SFP transceiver. Insert or remove the transceiver only when there is no power to the CPU.

Failure to follow these instructions can result in equipment damage.

NOTE: For part numbers and other information regarding the available transceivers, refer to the description of CPU Hot Standby link transceivers ([see page 31](#)).