Try to use XDS510PP

| PC (Windows XP) with Parallel Port | → ← Parallel cable → Parallel Port | XDS510PP PLUS | ← 14pin cable → J8 | TMS320C6416 DSK with Parallel Port |

5V ↓ (above XDS510PP PLUS)   5V ↓ (above TMS320C6416 DSK)

Since I didn't have a target custom TMS320CC6414 board yet, I used the "TMS320C6416 DSK" board instead.

1. PC BIOS setting "Parallel port"
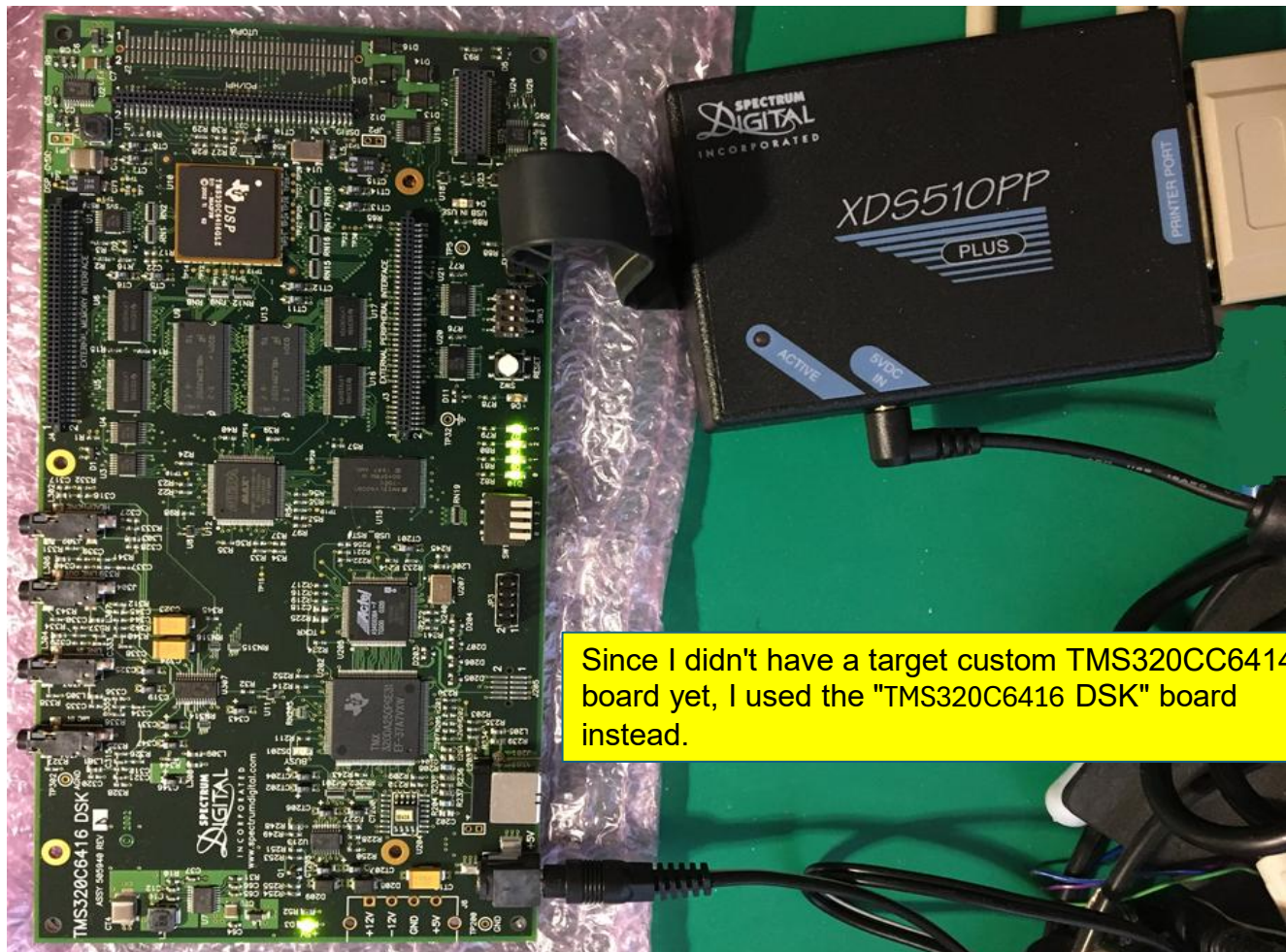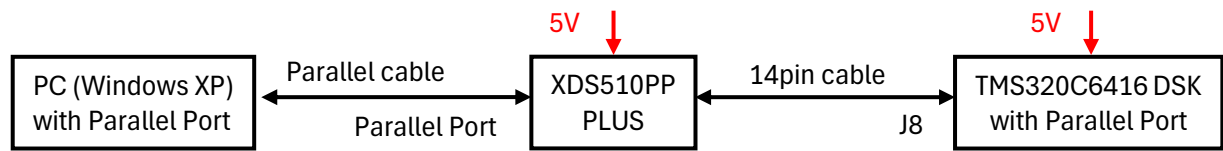


```
              Parallel port                    Item Specific Help

Parallel port      [Enabled]           Configure parallel port
Mode               [Bi-directional]    using options:
Base I/O address   [3BC]
Interrupt          [IRQ 7]             [Disabled]
                                         No configuration

                                       [Enabled]
                                         User configuration

                                       (OS Controlled)
                                         Displayed when
                                         controlled by OS


F1      Help↑↓  Select Item    F5/F6  Change Values     F9   Setup Defaults
F3/ESC  Exit                   Enter  Select ▶ Sub-Menu  F10  Save and Exit
```
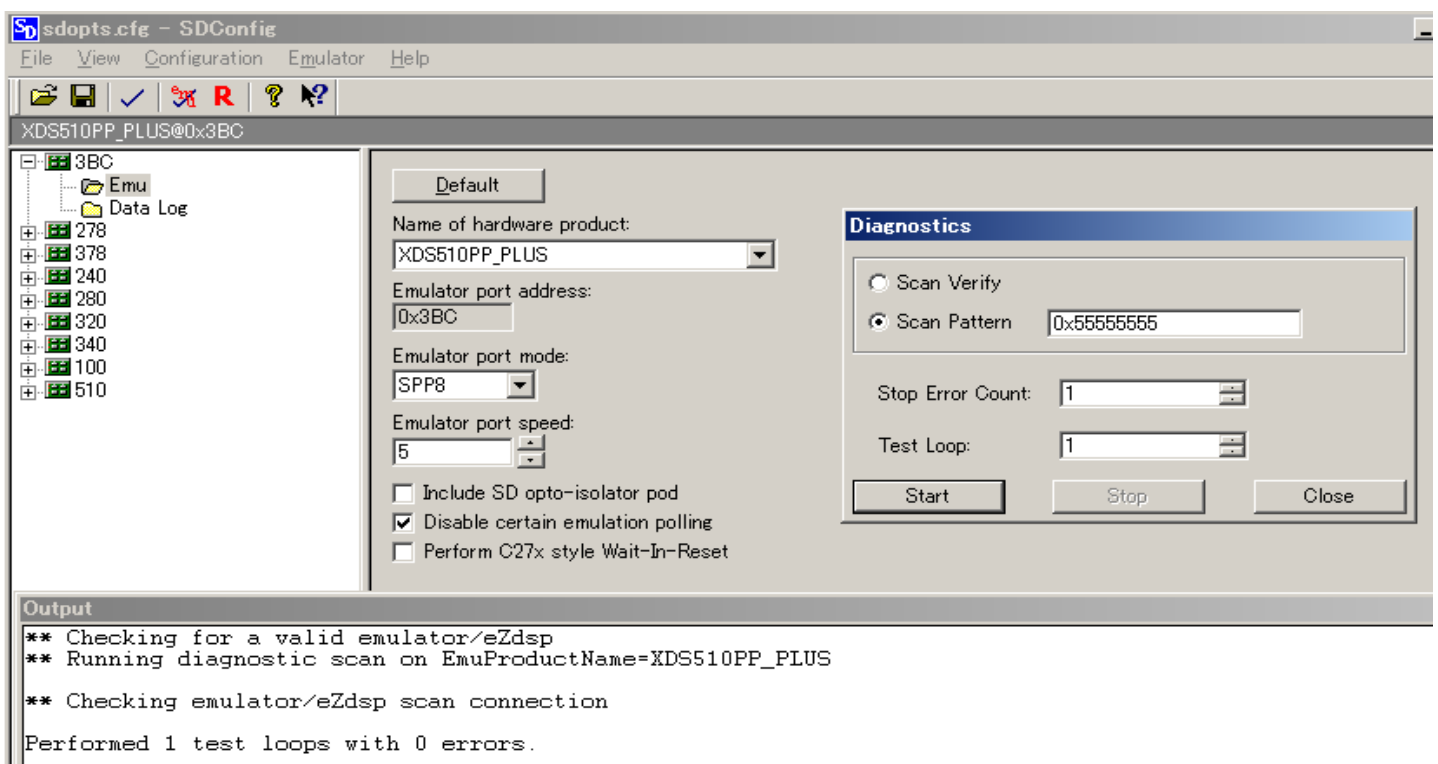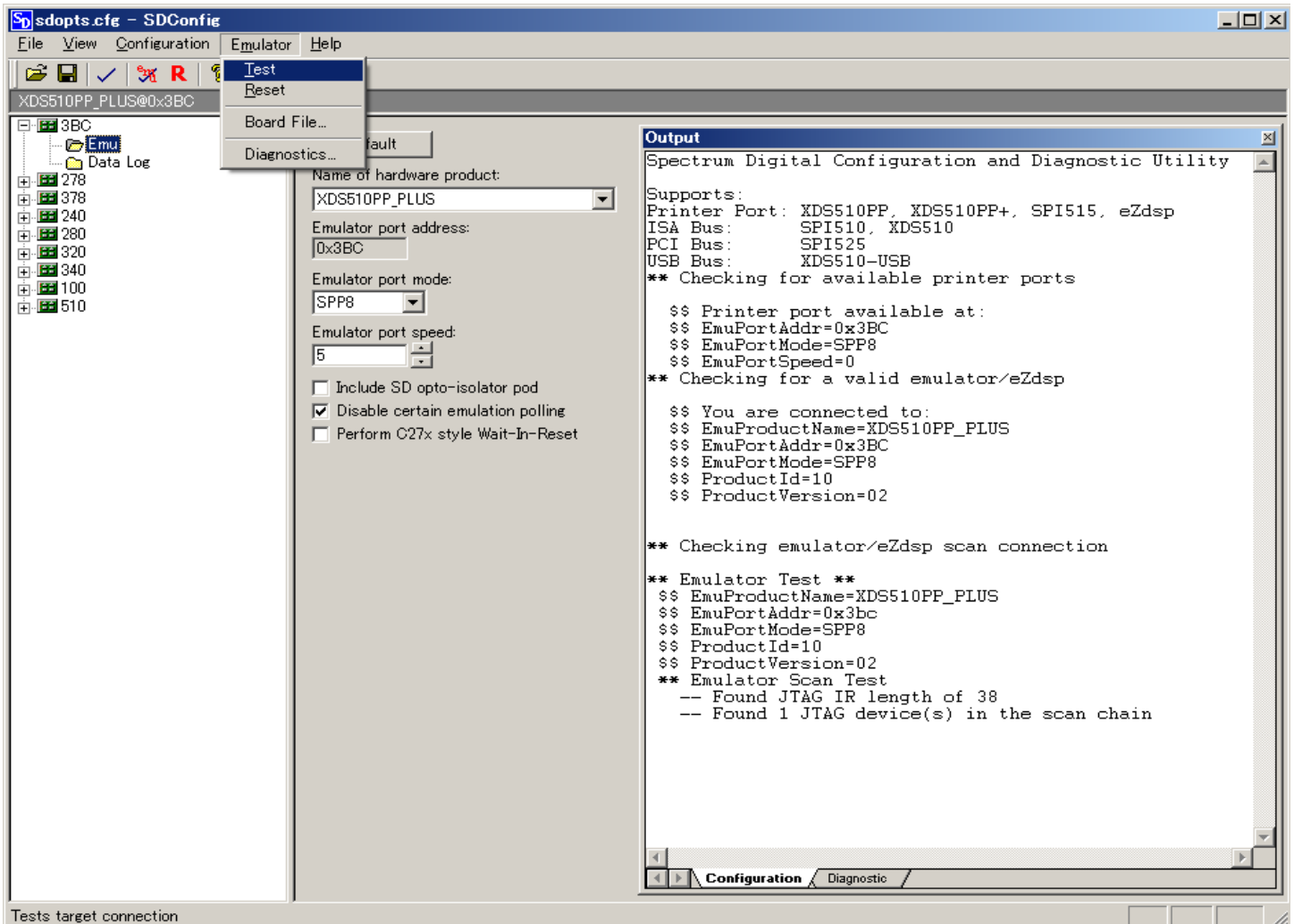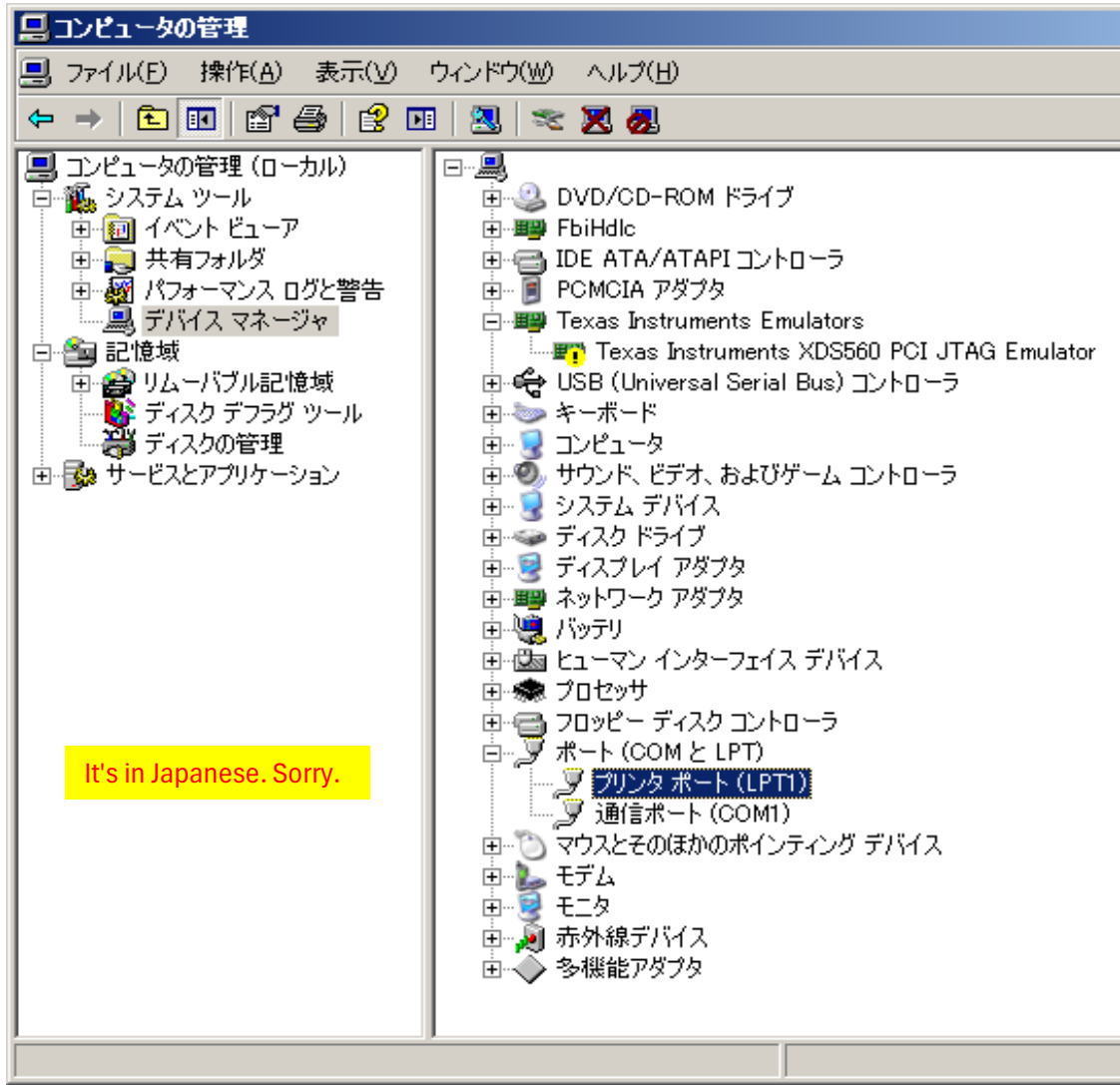
2. SDConfig

Environment
XDS510PP PLUS : Power ON
TMS320C6416 DSK board: Power ON

XDS510PP-Plus JTAG emulator seems to work fine.

```
SD sdopts.cfg - SDConfig                                                    _ | □ | ×
File  View  Configuration  Emulator  Help
   ┌───────────────────────────────┐
   │ Test                          │
   │ Reset                         │
   │                               │
   │ Board File…                   │
   │ Diagnostics…                  │
   └───────────────────────────────┘
XDS510PP_PLUS@0x3BC

□ 3BC                                                   Output                        ×
  └ Emu                    efault      Spectrum Digital Configuration and Diagnostic Utility
  └ Data Log          Name of hardware product:
⊞ 278                   XDS510PP_PLUS          ▼    Supports:
⊞ 378                                               Printer Port: XDS510PP, XDS510PP+, SPI515, eZdsp
⊞ 240              Emulator port address:           ISA Bus:      SPI510, XDS510
⊞ 280               0x3BC                            PCI Bus:      SPI525
⊞ 320                                               USB Bus:      XDS510-USB
⊞ 340              Emulator port mode:               ** Checking for available printer ports
⊞ 100               SPP8     ▼
⊞ 510                                                  $$ Printer port available at:
                   Emulator port speed:                  $$ EmuPortAddr=0x3BC
                    5           ▲▼                        $$ EmuPortMode=SPP8
                                                          $$ EmuPortSpeed=0
                   □ Include SD opto-isolator pod    ** Checking for a valid emulator/eZdsp
                   ☑ Disable certain emulation polling
                   □ Perform C27x style Wait-In-Reset    $$ You are connected to:
                                                          $$ EmuProductName=XDS510PP_PLUS
                                                          $$ EmuPortAddr=0x3BC
                                                          $$ EmuPortMode=SPP8
                                                          $$ ProductId=10
                                                          $$ ProductVersion=02

                                                     ** Checking emulator/eZdsp scan connection

                                                     ** Emulator Test **
                                                       $$ EmuProductName=XDS510PP_PLUS
                                                       $$ EmuPortAddr=0x3bc
                                                       $$ EmuPortMode=SPP8
                                                       $$ ProductId=10
                                                       $$ ProductVersion=02
                                                     ** Emulator Scan Test
                                                       -- Found JTAG IR length of 38
                                                       -- Found 1 JTAG device(s) in the scan chain

                                                     ◄ ► \ Configuration / Diagnostic /
Tests target connection
```

```
SD sdopts.cfg - SDConfig                                                    _
File  View  Configuration  Emulator  Help

XDS510PP_PLUS@0x3BC

□ 3BC                      Default
  └ Emu
  └ Data Log         Name of hardware product:        Diagnostics                          ×
⊞ 278                 XDS510PP_PLUS          ▼
⊞ 378                                                  ○ Scan Verify
⊞ 240            Emulator port address:
⊞ 280             0x3BC                                ● Scan Pattern    0x55555555
⊞ 320
⊞ 340            Emulator port mode:
⊞ 100             SPP8     ▼                           Stop Error Count:    1        ▲▼
⊞ 510
                 Emulator port speed:                  Test Loop:           1        ▲▼
                  5           ▲▼
                                                       Start          Stop          Close
                 □ Include SD opto-isolator pod
                 ☑ Disable certain emulation polling
                 □ Perform C27x style Wait-In-Reset

Output
** Checking for a valid emulator/eZdsp
** Running diagnostic scan on EmuProductName=XDS510PP_PLUS

** Checking emulator/eZdsp scan connection

Performed 1 test loops with 0 errors.
```

3. Device Manager

It's in Japanese. Sorry.
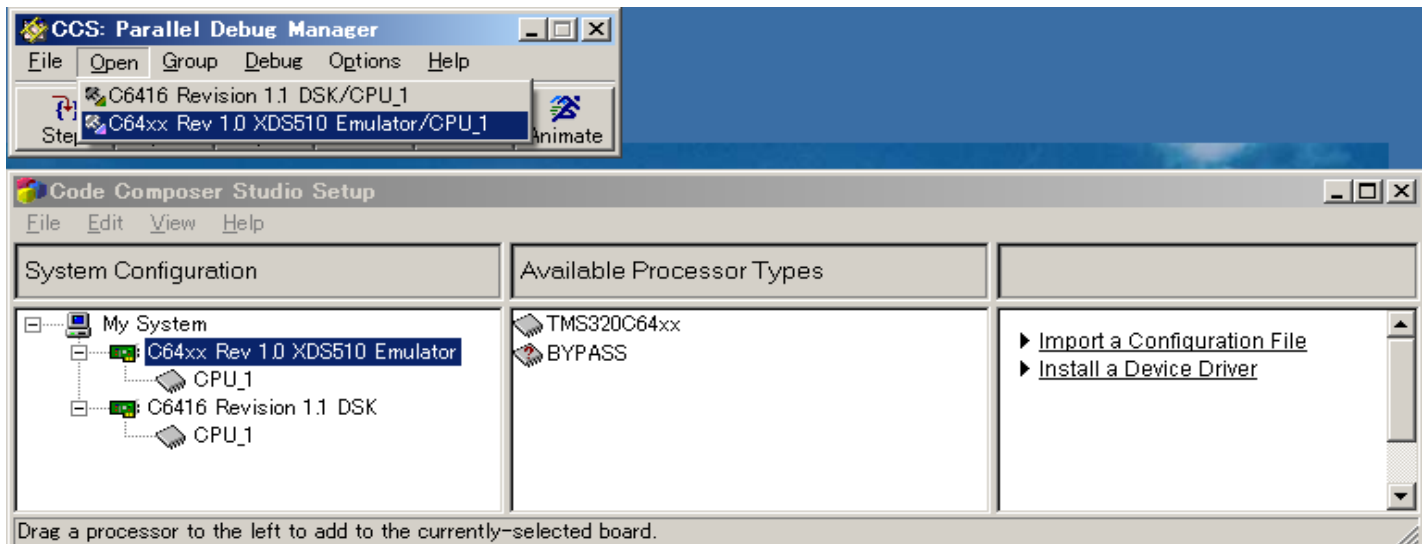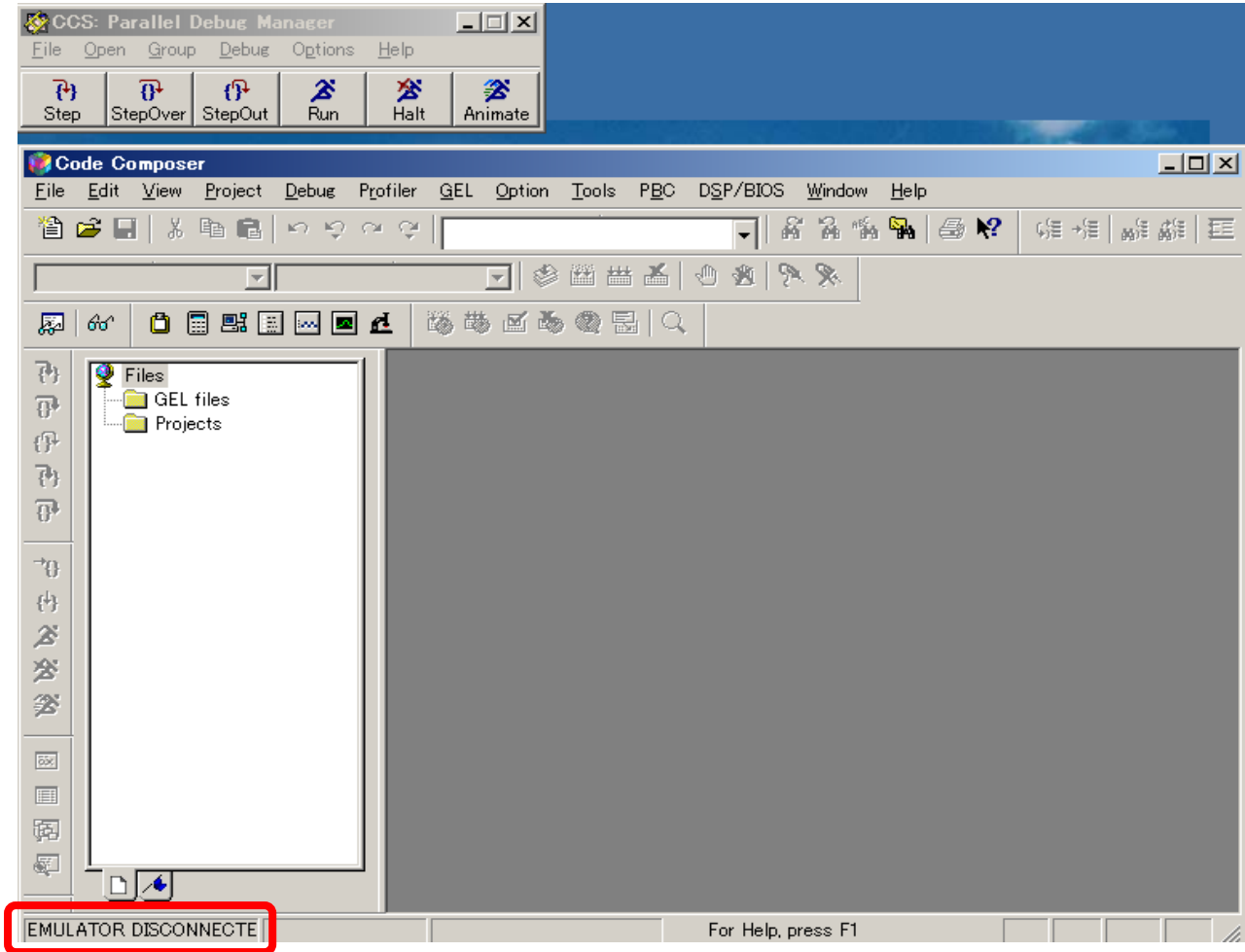
XDS510PP is missing.
Both "XDS510PP" and "target board" are powered on.
ACTIVE LED on the XDS510PP is OFF.
Is this condition normal?

4. Code Composer Studio 2.2 Setup

5. Code Composer Studio 2.2

6. FlashBurn

Screenshot 1

CCS: Parallel Debug Manager

File   Open   Group   Debug   Options   Help

Code Composer

File   Edit   View   Project   Debug   Profiler   GEL   Option   Tools   PBC

FlashBurn – [post.cdd]

File   Edit   View   Program   Window

FlashBurn

⚠ ## 07/22/25 09:06:18
Attempt to create Code Composer Studio…
CCS created OK.
Req. FBTC Load.
Timed out Loading FBTC.

OK

Downloading

Conversion Cmd File: [   ]   Browse…

File To Burn: [C:¥ti¥examples¥dsk6416¥bsl¥post¥post.hex]   Browse…

Logical Addr: [0x0]

Verify Write   ☐

Write Boot Addr   ☐

Target System

Not Connected

Processor Type: [64x ▼]

FBTC Version ID:

FBTC Program File: [C:¥ti¥bin¥utilities¥flashburn¥c6000¥dsk6416¥]   Browse…

Flash Physical Addr: [0x64000000]   #Bytes: [0x80000]

Help   Close

Files
  GEL files
  Projects

For Help, press F1

EMULATOR DISCONNECTE

For Help, press F1

EMULATOR DISCONNECTE

For Help, press F1

Screenshot 2

CCS: Parallel Debug Manager

File   Open   Group   Debug   Optic

FlashBurn

⚠ ## 07/22/25 09:06:18
Attempt to create Code Composer Studio…
CCS created OK.
Req. FBTC Load.
Timed out Loading FBTC.
Either I cannot load FBTC, or the FBTC is not compatible with this version of FlashBurn.
Verify that the FBTC file is compatible with target and this version of FlashBurn.

OK

Code Composer

File   Edit   View   Project   Debug   Profil

Downloading

Conversion Cmd File: [   ]   Browse…

File To Burn: [C:¥ti¥examples¥dsk6416¥bsl¥post¥post.hex]   Browse…

Logical Addr: [0x0]

Verify Write   ☐

Write Boot Addr   ☐

Target System

Not Connected

Processor Type: [64x ▼]

FBTC Version ID:

FBTC Program File: [C:¥ti¥bin¥utilities¥flashburn¥c6000¥dsk6416¥]   Browse…

Flash Physical Addr: [0x64000000]   #Bytes: [0x80000]

Help   Close

Files
  GEL files
  Projects

For Help, press F1

EMULATOR DISCONNECTE

For Help, press F1

EMULATOR DISCONNECTE

For Help, press F1