iPECS is an Ericsson-LG Brand

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Extension Board
(SLIB8 / DTIB8 / SLIU8)

(iPECS eMG100HW-TRA-01-003)

23 Aug, 2019

REVISION HISTORY

ISSUE	DATE	DESCRIPTION OF CHANGES
0.1	23-Aug-19	Preliminary release

Table of Contents

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General Description

SLT interface – SLIB8, SLIU8

- SLT Feed characteristic : Constant current (20mA) and Constant voltage (-48V)
- Over-voltage and Over current Protection
- Over temperature (SLIC temperature 165°C) Detection and automatically port disable.
- Sinusoidal Ringing Circuit - Frequency : 25Hz, Amplitude : 65Vrms(STG)
- DTMF Dial Detect for each channel - Detect the 16 standard DTMF tone pairs.
- Pulse Dial Detect
- Caller ID support - Generate CID signal according to FSK modulation.
- Message wait Indication support : To inform the missed call

  - Line voltage reaches 95V and then a lamp at MWI subscriber phone is blink.
- Line Monitoring function

  - Methods to check for common faults on line. Ex) Short Circuit, Line disconnect, etc

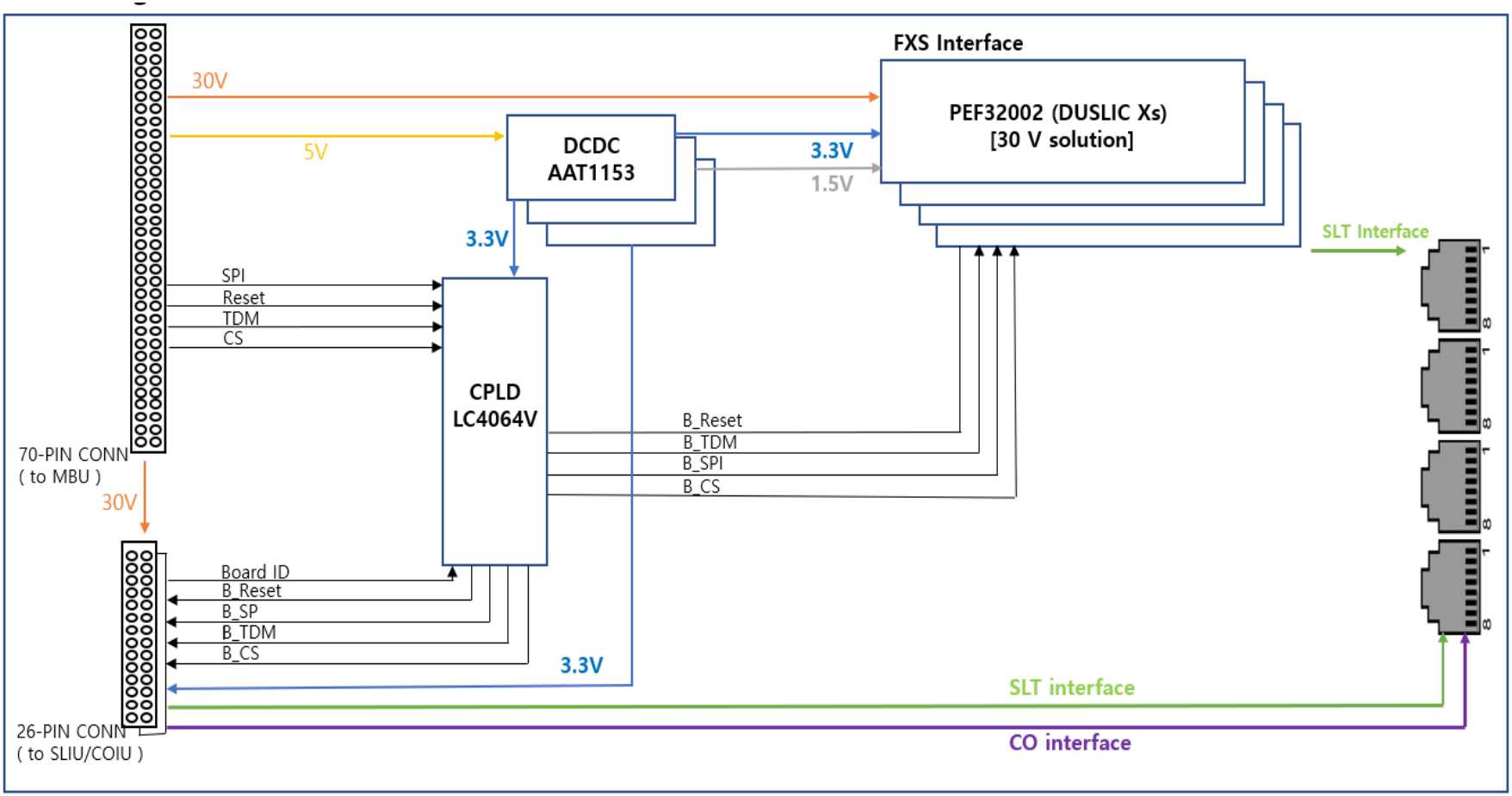
General Description

DKT interface - DTIB8

- Feeding power : +30V
- 2 Wire connection
- Terminal Distance
  - 330 m (1000 ft) of AWG #24 cable
  - 500 m (1600 ft) of AWG #22 cable

Block Diagram

SLIB8 interface



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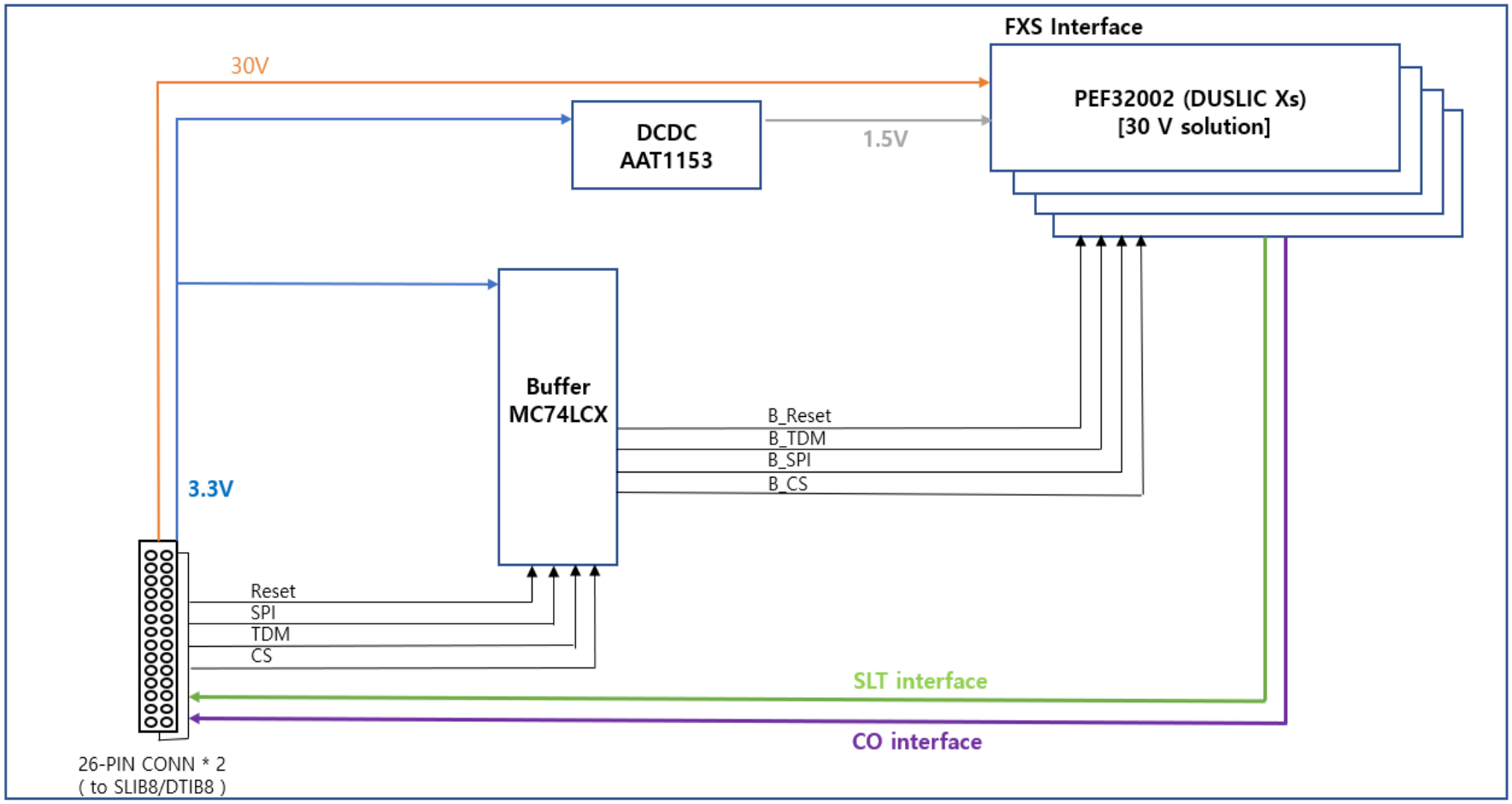
Block Diagram

SLIU8 interface



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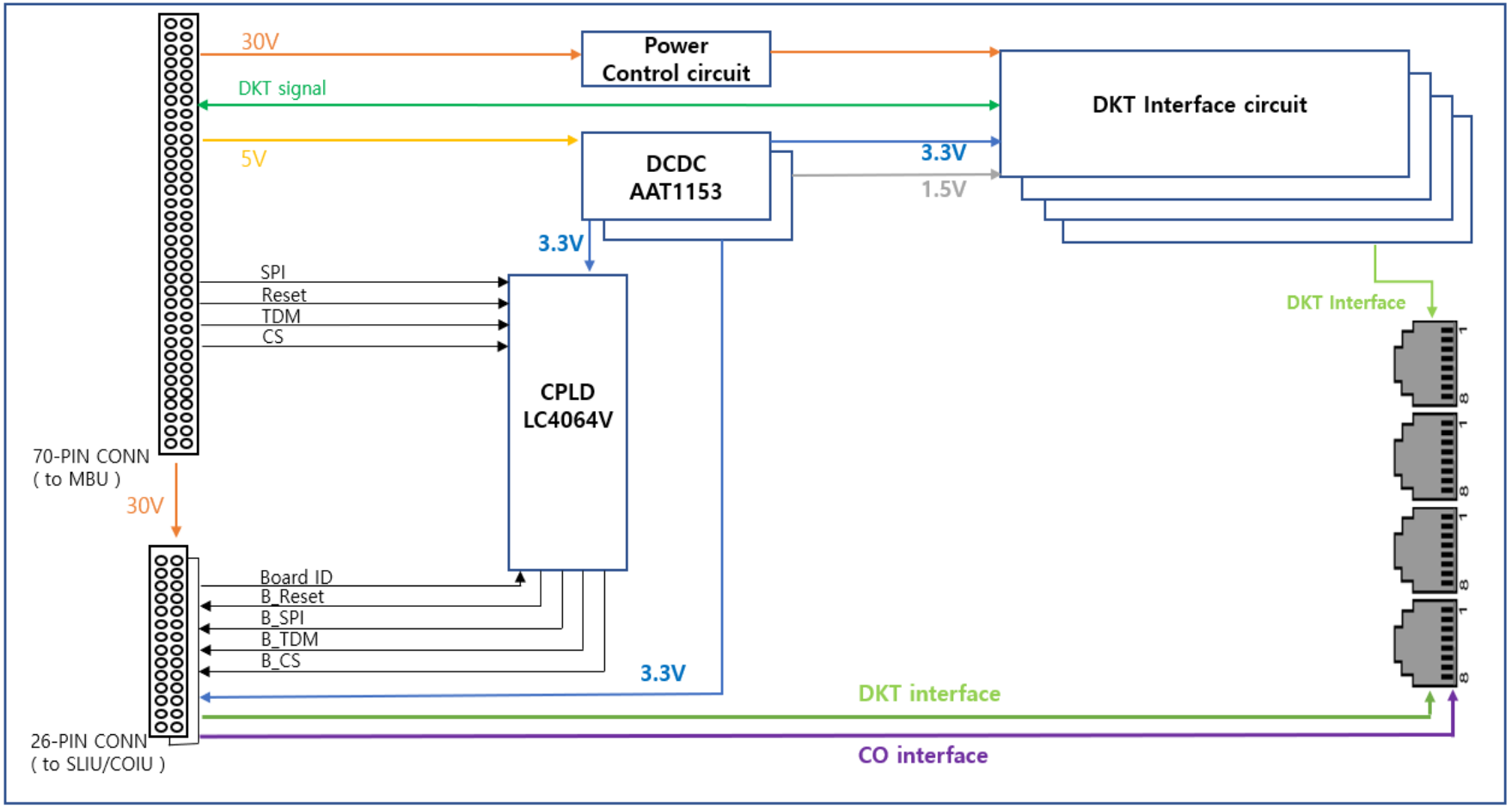
Block Diagram

DTIB8 interface



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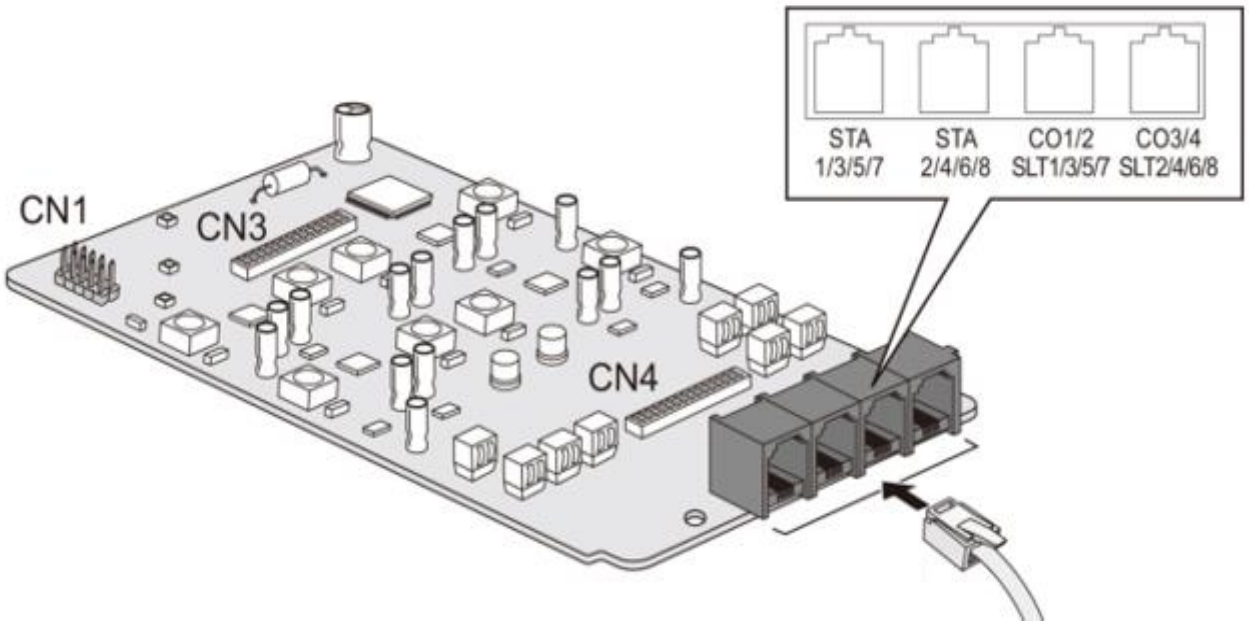
PCB Assembly

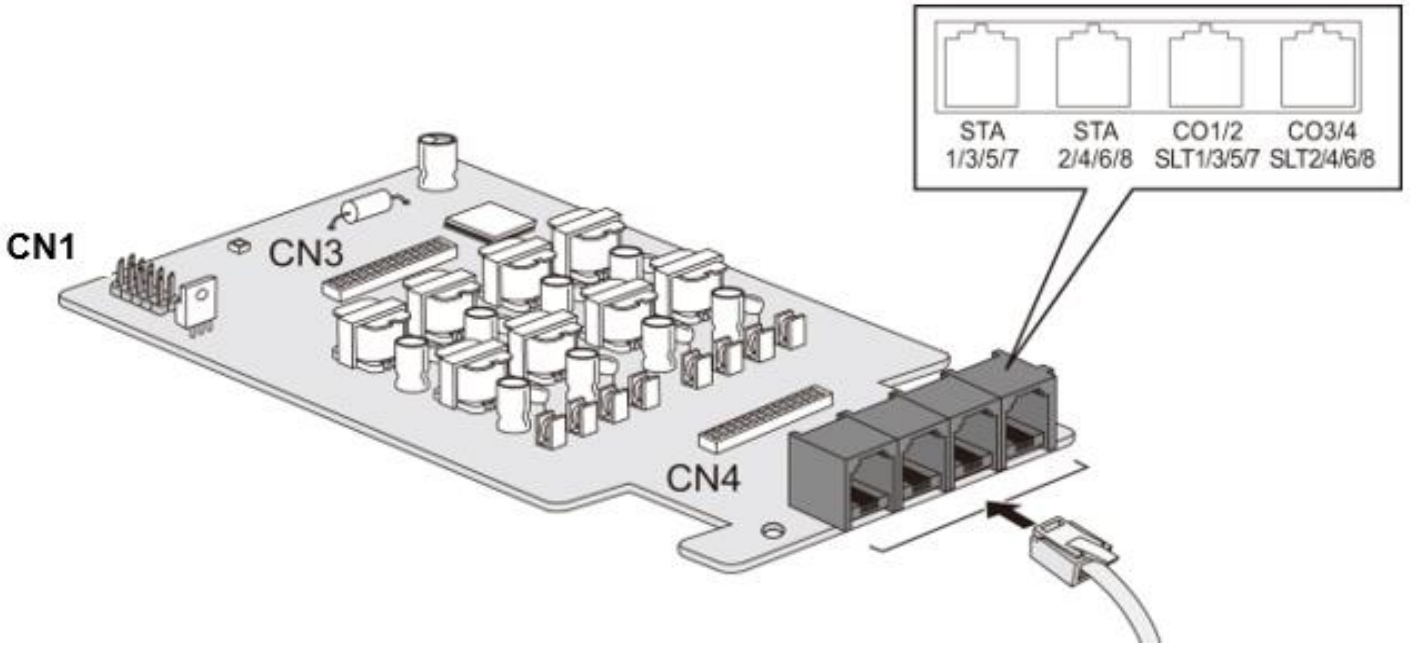
SLIB8



- 8 SLT interface circuits.
- Option boards may be installed on the SLIB8
  - COIU2 : 2 CO ports
  - COIU4 : 4 CO ports
  - SLIU8 : 8 SLT ports

PCB Assembly

DTIB8



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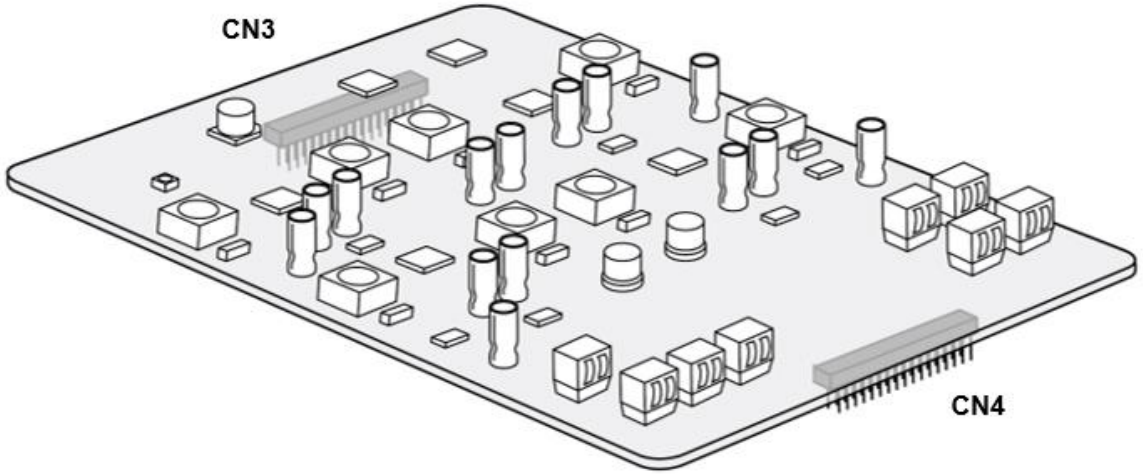
PCB Assembly

SLIU8



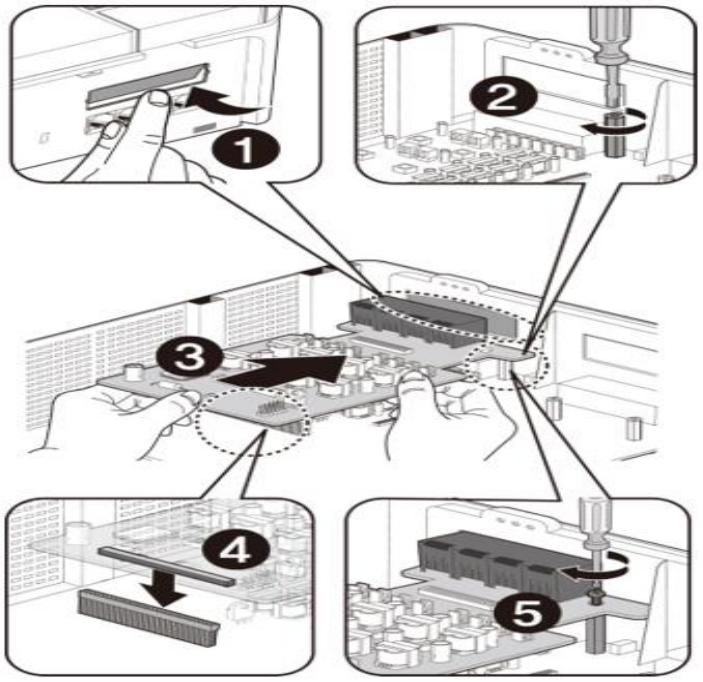
- 8 SLT interface circuits.
- No connector for the other option board installation on top side.

Installation

DTIB8 / SLIB8

Remove the KSU and Cord cover.

1. For an Interface board, remove the modular jack cover plate
2. Insert a standoff through the MBU and into the cabinet. Tighten the standoffs with Wrench
3. Holding the board, insert the board carefully in the direction of the arrow.
4. Carefully align the connector on the board with the mating MBU connector pins, then push the board down to fully engage the connectors.
5. To securely fix the board in place, insert and tighten a screw



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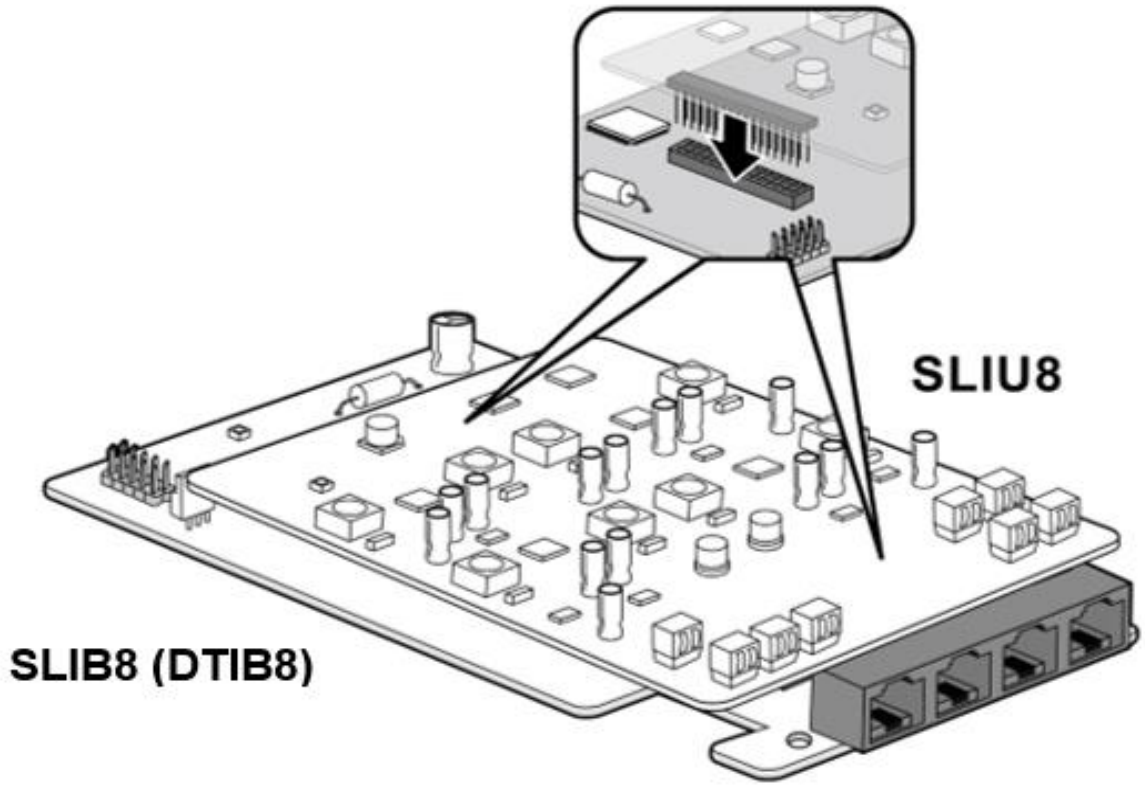
Installation

SLIU8

- SLIU8 can be installed on the SLIB8 or DTIB8

  - CN3 & CN4 for SLT expansion.



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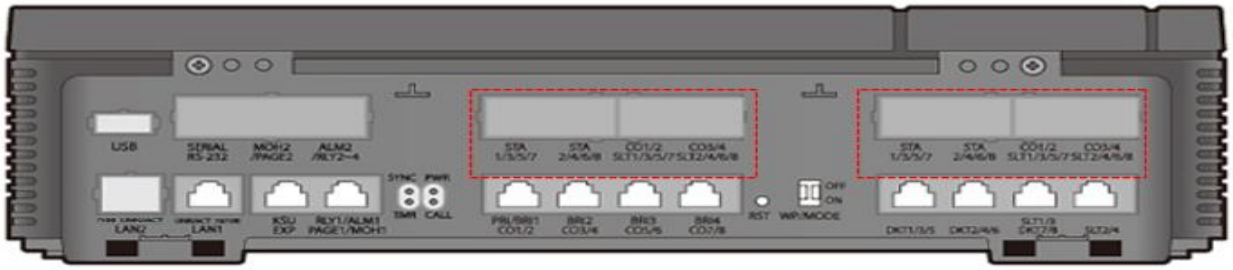
Modular jack wiring

Pin Assignment



Option board	Modular Jack	Pin assignment
SLIB8 + SLIU8	MJ1-1 MJ1-2 MJ1-3 MJ1-4 STA 1/3/5/7 · STA 2/4/6/8 · CO1/2 SLT2/4/6/8 · CO3/4 SLT1/3/5/7	MJ1-1: SLT1(4,5), SLT3(7,8), SLT5(1,2), SLT7(3,6) MJ1-2: SLT2(4,5), SLT4(7,8), SLT6(1,2), SLT8(3,6) MJ1-3: SLT9(4,5), SLT11(7,8), SLT13(1,2), SLT15(3,6) MJ1-4: SLT10(4,5), SLT12(7,8), SLT14(1,2), SLT16(3,6)
SLIB8 + COIU4	MJ1-1 MJ1-2 MJ1-3 MJ1-4 STA 1/3/5/7 · STA 2/4/6/8 · CO1/2 SLT2/4/6/8 · CO3/4 SLT1/3/5/7	MJ1-1: SLT1(4,5), SLT3(7,8), SLT5(1,2), SLT7(3,6) MJ1-2: SLT2(4,5), SLT4(7,8), SLT6(1,2), SLT8(3,6) MJ1-3: CO1(7,8), CO2(4,5) MJ1-4: CO3(7,8), CO4(4,5)
DTIB8 + SLIU8	MJ1-1 MJ1-2 MJ1-3 MJ1-4 STA 1/3/5/7 · STA 2/4/6/8 · CO1/2 SLT2/4/6/8 · CO3/4 SLT1/3/5/7	MJ1-1: DKT1(4,5), DKT3(7,8), DKT5(1,2), DKT7(3,6) MJ1-2: DKT2(4,5), DKT4(7,8), DKT6(1,2), DKT8(3,6) MJ1-3: SLT1(4,5), SLT3(7,8), SLT5(1,2), SLT7(3,6) MJ1-4: SLT2(4,5), SLT4(7,8), SLT6(1,2), SLT8(3,6)
DTIB8 + COIU4	MJ1-1 MJ1-2 MJ1-3 MJ1-4 STA 1/3/5/7 · STA 2/4/6/8 · CO1/2 SLT2/4/6/8 · CO3/4 SLT1/3/5/7	MJ1-1: DKT1(4,5), DKT3(7,8), DKT5(1,2), DKT7(3,6) MJ1-2: DKT2(4,5), DKT4(7,8), DKT6(1,2), DKT8(3,6) MJ1-3: CO1(7,8), CO2(4,5) MJ1-4: CO3(7,8), CO4(4,5)

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