

Service data bulletin



Instrument: DL850

Date: 2016.08.30

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SUBJECT: DL850 Display Operator Unit (DOU) illustrated parts list

The DL850 speed log has been manufactured since 1998.

1998-2006: One 540 kHz sensor for single hull gate valve.

2007: 4 new versions of DL850 Display cabinet.

540kHz

540kHz w/Docking option

270kHz

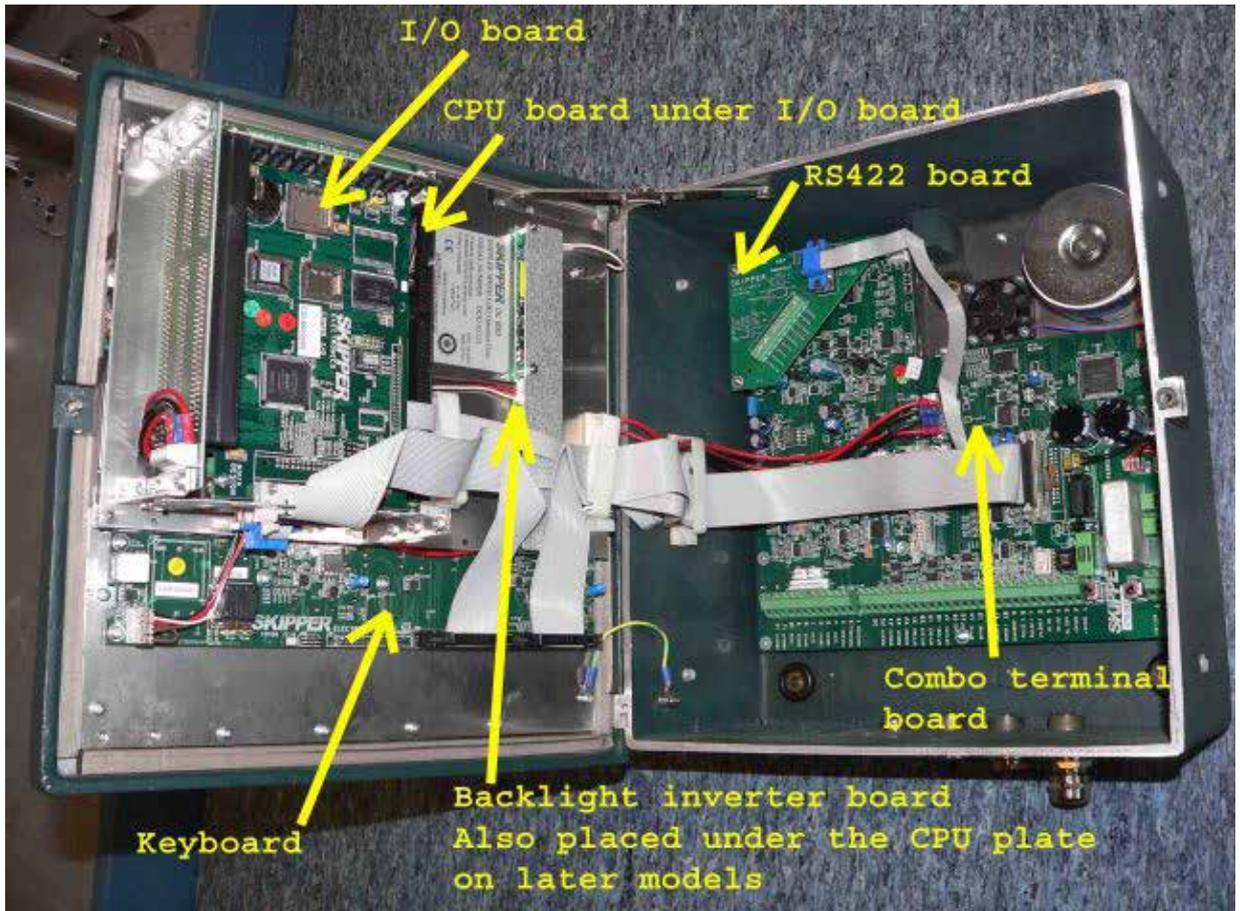
270kHz w/Docking option

New 270 kHz sensor for single hull gate valve, double hull gate valve or tank introduced.

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DL850 with CPU386, Backlight inverter on CPU plate. 1998-2005



Description	Part Number
CPU PCB 386	OBSOLETE
I/O PCB COMBO DL850 540kHz (With software)	PI-D001
KEYBOARD PCB COMBO	PK-C001
RS422 TERMINAL PCB	ZZZ-030011DL
TERMINAL PCB COMBO	PT-C001
COOLING FAN	ZZJ-02019
PCB Backlight inverter	ZZZ-030010

CPU PCB, Frontplate, frontglass and screen is obsolete.

Service and /or upgrading old electronics may create new problems. SKIPPER recommends to consider purchase of new cabinet before any major upgrade.

DL850 with CPU386, Backlight inverter under CPU plate. 2005-2006



This version was introduced from serial no 05194. (3rd. feb. 2005)

Description	Part Number
CPU PCB 386	OBSOLETE
I/O PCB COMBO DL850 540kHz (With software)	PI-D001
KEYBOARD PCB COMBO	PK-C001
RS422 TERMINAL PCB	ZZZ-030011DL
TERMINAL PCB COMBO	PT-C001
COOLING FAN	ZZJ-02019

CPU PCB, Frontplate, frontglass and screen is obsolete.

Service and /or upgrading old electronics may create new problems. SKIPPER recommends to consider purchase of new cabinet before any major upgrade.

DL850 with CPU6753, Disk-On-Chip. (270 and Docking option). 2007-2008.

This version was introduced January 2007.

The software is moved from the I/O board.

The software is installed on a MESA card with one Compact flash memory and one Disk-On-Chip memory.

Software may be upgraded using the Compact flash memory.

A serial ISA card is added to implement a second NMEA input.
CPU is upgraded to Pentium to increase processor speed.

There are two lines of the software.

Software version 4.01.01 to 4.01.06 is for 540kHz sensor.

Software version 4.01.11 to 4.01.16 is for 270kHz sensor.

New docking option in both versions.

Partnumbers on Cabinet is changed to:

Description	Part Number
270 or 540 kHz No docking option	DL850N-SB
270 or 540 kHz with docking option	DL850D-SB

There are no differences in hardware between the versions.

October 2007:

The part number is changed to reflect the four different versions:

Description	Part Number
LOG OPERATOR UNIT DL850 540 kHz.	DL850N-SC
LOG OPERATOR UNIT DL850 540 kHz with docking	DL850D-SC
LOG OPERATOR UNIT DL850 270 kHz.	DL850N27-SC
LOG OPERATOR UNIT DL850 270 kHz with docking	DL850D27-SC



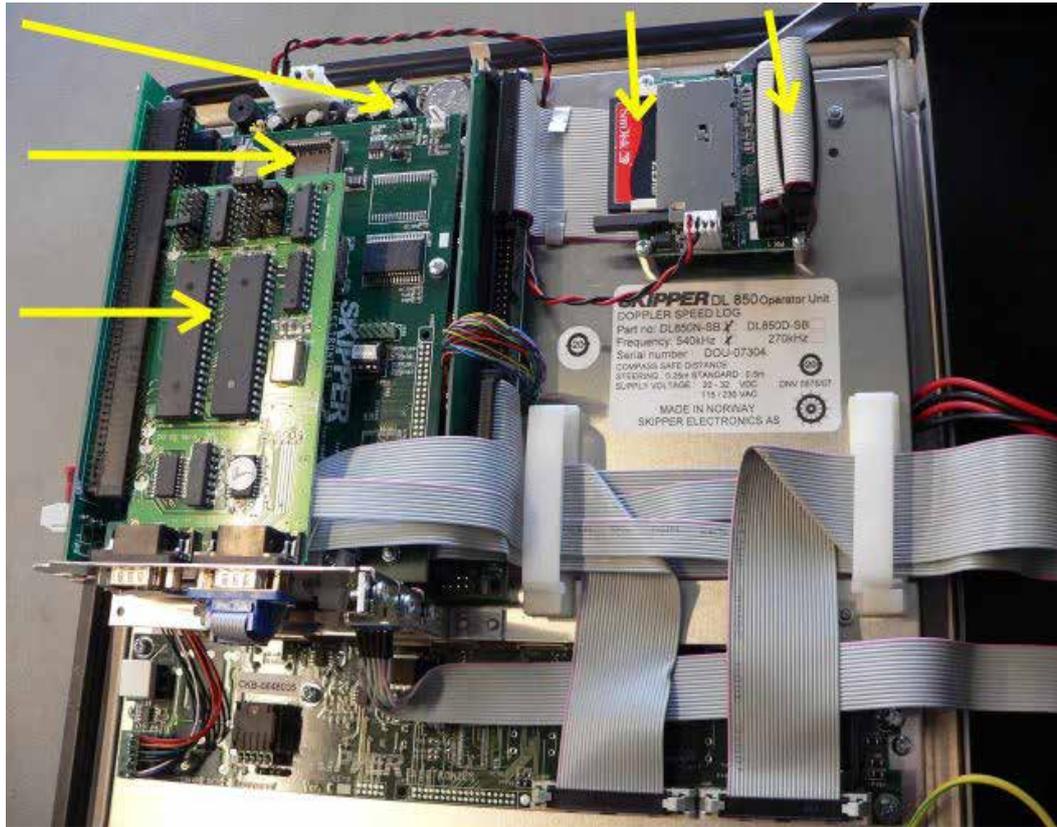
CPU PCB
Pentium 6753
Identified by the
visible battery

Compact flash
memory

Disc-On-Chip
Under the flat cable

I/O board
without S/W

ISA Serial board



Parts list for DL850 DOU CPU6753, Compact flash and Disk-On-Chip.

Description	Part Number	
PCB CPU 6753	OBSOLETE	See Note1
I/O PCB COMBO	PI-C051	
KEYBOARD PCB COMBO	PK-C001	
RS422 TERMINAL PCB	ZZZ-030011DL	
TERMINAL PCB COMBO	PT-C001	
COOLING FAN	ZZJ-02019	
LCD 10,4" Colour for Graphical cabinet Sharp LQ104V1DG81	KY-C003	

Note1:

CPU6753 is not available. If in need of CPU, an upgrade to CPU6742 is possible.

An upgrade kit to CPU6742 will also include change of I/O PCB and software.

The kit consist of CPU plate,PCB Motherboard, PCB CPU6742, PCB I/O board, MESA board, 2 CFcards and software.

Upgrade kits must be ordered with the correct version of software.

Description	Part Number	
CPU upgrd DL850N 540 6753=>6742 w CPU plate, etc	SA-C125	
CPU upgrd DL850D 540 6753=>6742 w CPU plate, etc	SA-C133	
CPU upgrd DL850N27 270 6753=>6742 w CPU plate, etc	SA-C126	
CPU upgrd DL850D27 270 6753=>6742 w CPU plate,etc	SA-C134	

DL850 with CPU6740. May 2008

This version was introduced May 2008.

The CPU board 6753 is obsolete and not available.

CPU 6740 is introduced as a temporary replacement until CPU6742 was released.

This board requires new I/O board and new software.

Software version 4.01.07 is for 540 kHz sensor.

Software version 4.01.17 is for 270 kHz sensor.

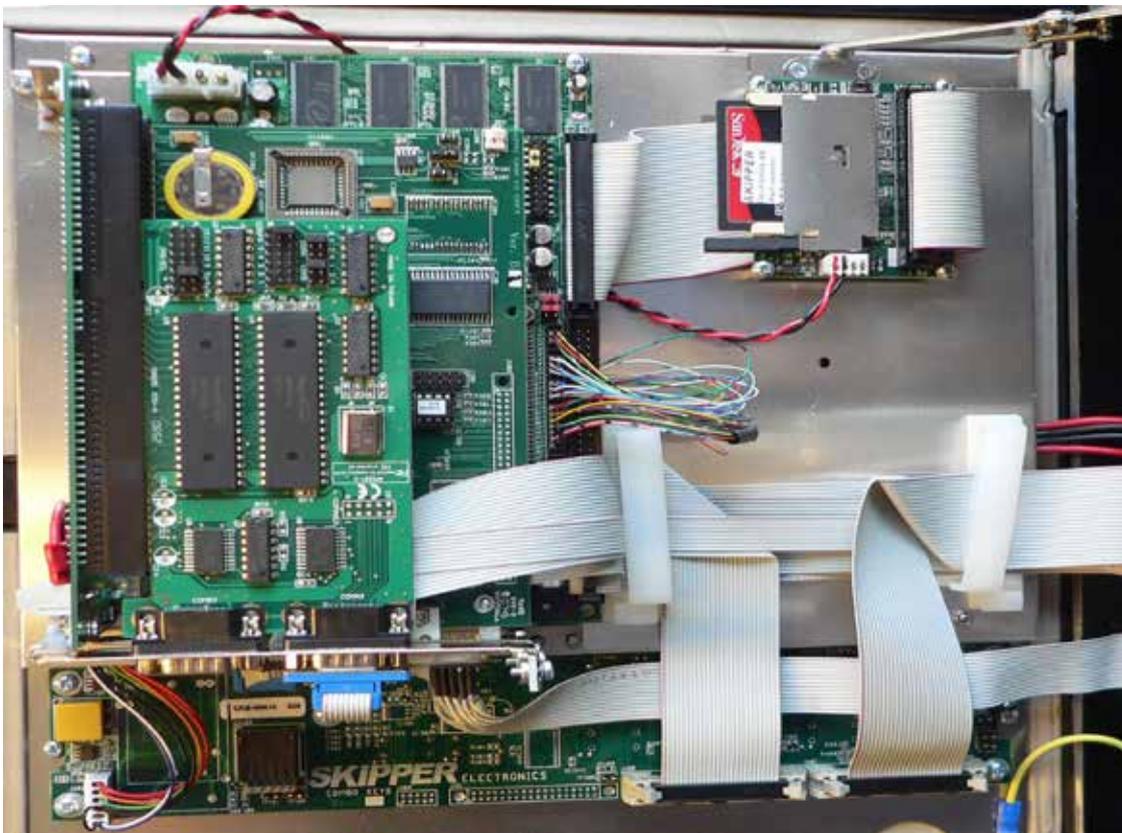
Docking option available in both versions.

The Disc-On-Chip is replaced with a Compact Flash (CF) card located on the backside of the CPU board.

It is one CF card on the CPU and one on the MESA card.

The CF card on the CPU contains the software.

The CF card on the MESA card is used for software update and log of data.



Parts list for DL850 DOU CPU6740

Description	Part Number	
PCB CPU 6740F Setup ready. No Flash card.	PC-C052	
PCB COMBO I/O DL850/GDS102 with EPC1	PI-C052	
KEYBOARD PCB COMBO	PK-C001	
RS422 TERMINAL PCB	ZZZ-030011DL	
TERMINAL PCB COMBO	PT-C001	
COOLING FAN	ZZJ-02019	
LCD 10,4" Colour for Graphical cabinet Sharp LQ104V1DG81	KY-C003	

DL850 with CPU6742. October 2008

The CPU 6742 was introduced to standardize the CPU on all SKIPPER graphical cabinets.

Software version 4.01.07 is for 540 kHz sensor.

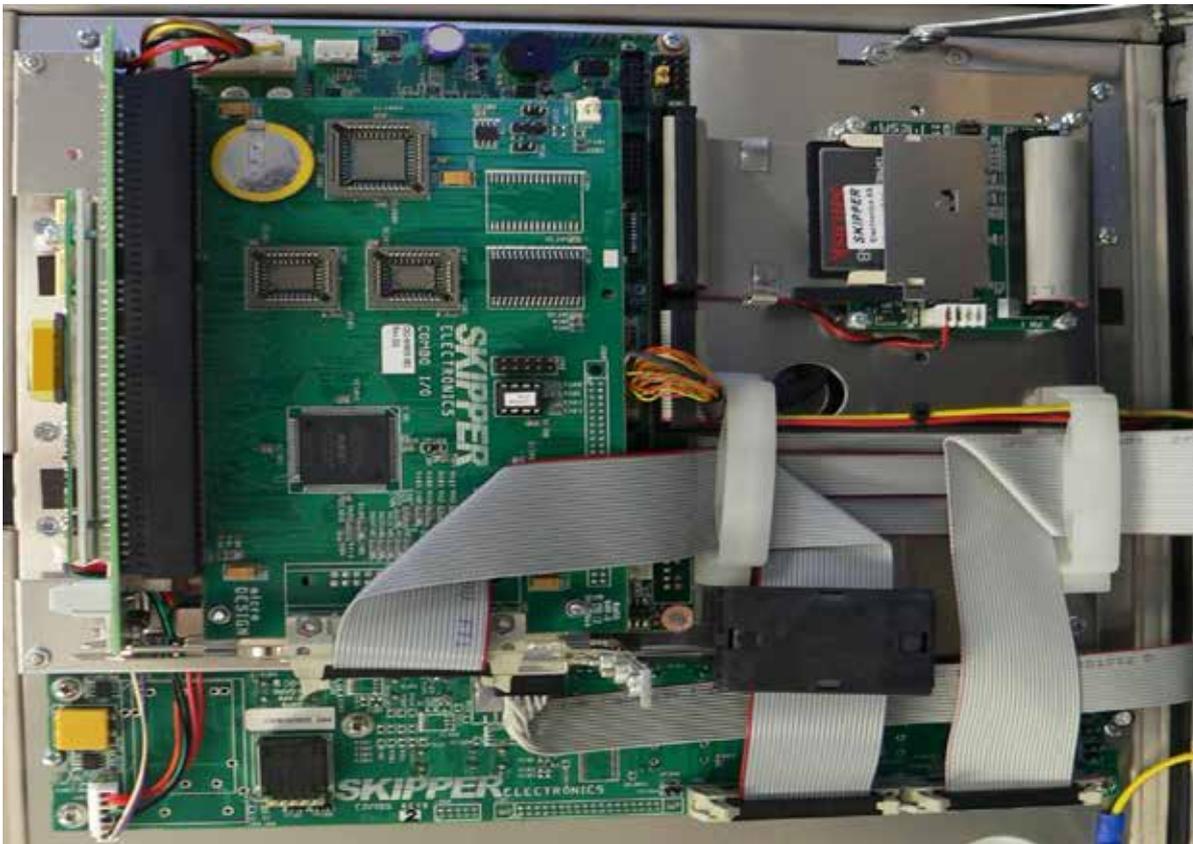
Software version 4.01.17 is for 270 kHz sensor.

Docking option available in both versions.

The power is supplied directly to CPU plug PWR1.

Different Screen plug result in new screen cable.

The additional serial COM ports PCB is not required any more.

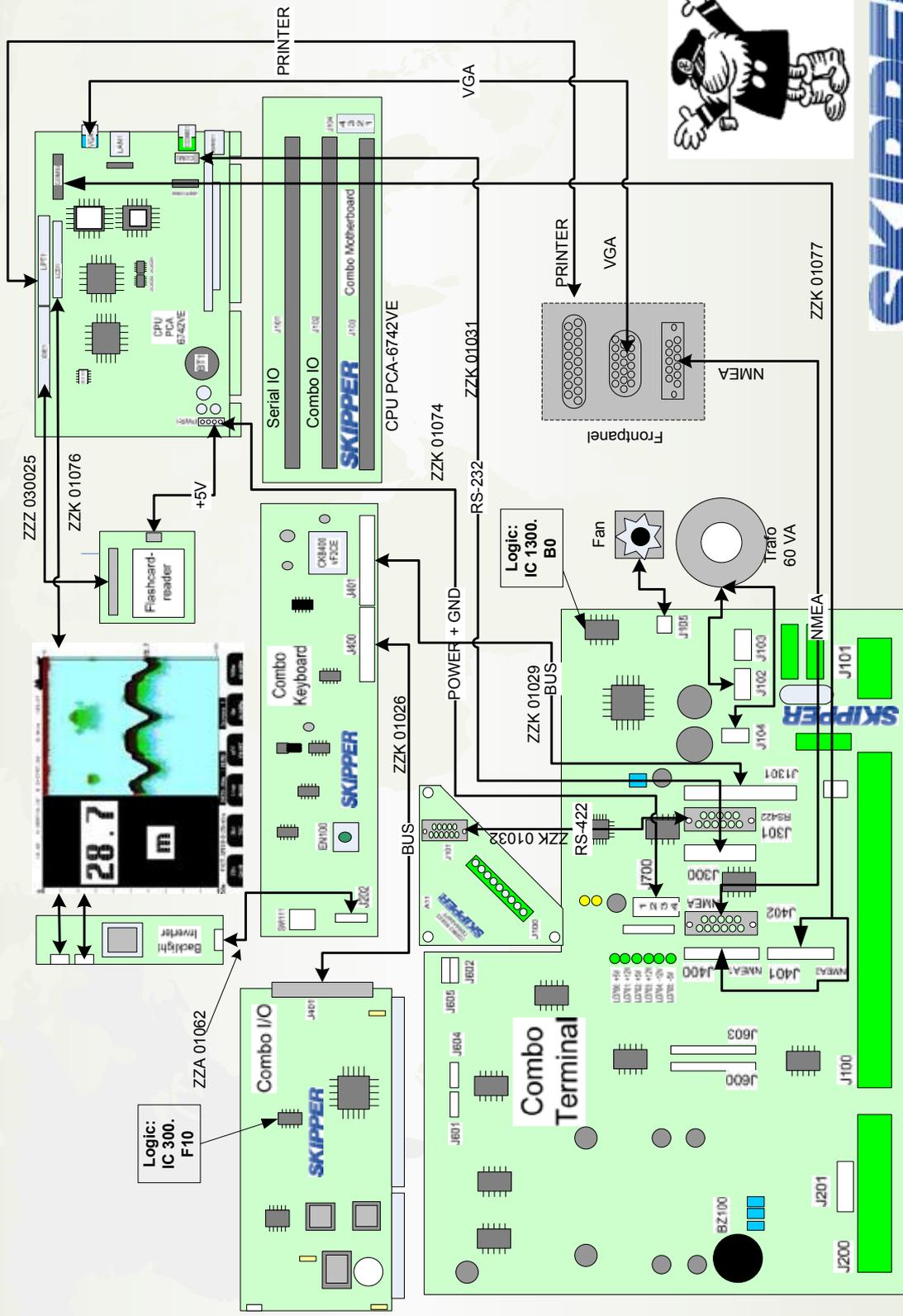


Parts list for DL850 DOU CPU6742

Description	Part Number	
PCB CPU 6742VE Setup ready. No Flash card.	PC-C053	
PCB COMBO I/O DL850/GDS102 with EPC1	PI-C052	
KEYBOARD PCB COMBO	PK-C001	
RS422 TERMINAL PCB	ZZZ-030011DL	
TERMINAL PCB COMBO	PT-C001	
COOLING FAN	ZZJ-02019	
LCD 10,4" Colour for Graphical cabinet Sharp LQ104V1DG81	KY-C003	

DL 850 Display Unit (CPU PCA 6742VE) Interconnection Diagram

01.12.2008



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