

PSNN-2014-0869

- ☒ Safety-related  
☐ Non-Safety-related  
☐ ASME CODE  
☐ Others (       )

Document No.	FPG-CFM-C51-0001	Rev	8
--------------	------------------	-----	---

The use of the information contained in this document by anyone for any purpose other than that for which it is intended is not authorized. In the event the information is used without authorization from TOSHIBA CORPORATION, TOSHIBA CORPORATION makes no representation or warranty and assumes no liability as to the completeness, accuracy, or usefulness of the information contained in this document.

TOSHIBA CORPORATION  
NUCLEAR ENERGY SYSTEMS & SERVICES DIV.

## NRW-FPGA-Based PRM System Qualification Project

Document Title Master Configuration List

CUSTOMER NAME	None
PROJECT NAME	NRW-FPGA-Based PRM System Qualification Project
ITEM NAME	PRM Equipment
ITEM NO.	C51
JOB NO.	FPG

Date	Issued by	Approved by	Reviewed by	Prepared by	Document Filing No.
Mar 31, 2016	Second Electrical System Design & Engineering Group	N. Oda Mar 31, 2016	N. Oda Mar 31, 2016	<i>T. Miyagaki</i> Mar 30, 2016	RS-5074046

**TOSHIBA CORPORATION** Nuclear Energy Systems & Services Division

Rev No.	Date	History	Approved by	Reviewed by	Prepared by
0	July.15.2005	The first issue	N.Oda	N.Oda	T.Miyazaki
1	Jan.24.2006	Revision	N.Oda	N.Oda	T.Miyazaki
2	Apr.7,2006	Revision	N.Oda	N.Oda	T.Miyazaki
3	Jun.12,2007	Revision	N.Oda	N.Oda	T.Miyazaki
4	Sep.14,2007	Revision	N.Oda	N.Oda	T.Miyazaki
5	Jan.28,2008	Revision	N.Oda	N.Oda	H.Sakai
6	Feb.21,2008	Revision	N.Oda	Y.Goto	H.Sakai
7	Apr.16,2008	Revision	N.Oda	Y.Goto	T.Miyazaki
8	See cover page	Reflect revision of Master Test Plan.	N.Oda	N.Oda	T.Miyazaki

## Table of Contents

1. Documents .....	4
1.1. NED Documents.....	4
1.2. Manufacturer Documents .....	5
2. Hardware Configuration .....	5
3. Software Configuration .....	28

## 1. Documents

### 1.1. NED Documents

#### 1.1.1 NED Design Documents

Document Description	Document Number	Revision	Date
Equipment Requirement Specification for FPGA based PRM Units	FPG-RQS-C51-0001	7	4/10/08

#### 1.1.2 NED Software Documents

Document Description	Document Number	Revision	Date
Software Quality Assurance Plan	FPG-PLN-C51-0002	2	3/31/06
Verification and Validation Plan	FPG-PLN-C51-0006	4	4/23/07

#### 1.1.3 NED Test Documents

Document Description	Document Number	Revision	Date
Master Test Plan	FPG-PLN-C51-0005	4	3/31/16
System Validation Test Plan	FPG-PLN-C51-0012	2	6/2/06
System Validation Test Procedure	FPG-TPRC-C51-0001	2	6/9/06
System Set-Up and check-out Test Procedure	FPG-TPRC-C51-1001	6	9/26/07
Environmental Test Procedure	FPG-TPRC-C51-1002	3	7/18/07
Seismic Test Procedure	FPG-TPRC-C51-1003	3	7/19/07
EMI/RFI Test Procedure	FPG-TPRC-C51-1004	7	12/20/07
Surge Withstand Capability Test Procedure	FPG-TPRC-C51-1005	4	9/26/07
EFT/B Test Procedure	FPG-TPRC-C51-1006	4	9/26/07
ESD Test Procedure	FPG-TPRC-C51-1007	5	11/21/07
Class 1E to Non-1E Isolation Test Procedure	FPG-TPRC-C51-1008	5	9/26/07
Operability Test Procedure	FPG-TPRC-C51-1009	5	9/26/07
Prudency Test Procedure	FPG-TPRC-C51-1010	5	8/26/07

## 1.2. Manufacturer Documents

### 1.2.1 Manufacturer Design Documents

Manufacturer Design Documents are identified in Vendor Document List for Test Specimen Units, Interconnecting Cables (FPG-VDL-C51-0001) Rev2.

### 1.2.2 Manufacturer Software Documents

Manufacturer Software Documents are identified in Vendor Document List for Test Specimen Units, Interconnecting Cables (FPG-VDL-C51-0001) Rev2.

### 1.2.3 Manufacturer Test Documents

Manufacturer Test Documents are identified in Vendor Document List for Test Specimen Units, Interconnecting Cables (FPG-VDL-C51-0001) Rev2.

## 2. Hardware Configuration

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
<b>Test Specimen Configuration</b>				
<b>LPRM Unit Configuration</b>	HNU100	2Y8HF129 (Rev0)	00360015	
(FSL01) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063701	
(FSL02) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063801	
(FSL03) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063901	
(FSL04) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064001	
(FSL05) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064101	
(FSL06) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064201	
(FSL07) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064301	
(FSL08) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064401	5/25/06
(FSL09) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064501	
(FSL10) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064601	
(FSL11) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064701	
(FSL12) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064801	
(FSL13) BLANK Module	HNS490	2Y8HF049 (Rev1)	0601021200	
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067401	
(PSSL01) LVPS Module	HNS500	---	0620864	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020101	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(BSL02) Blank Panel	---	---	---	5/25/06
(BSL03) AO Module	HNS511	2Y8HF051 (Rev3)	0601018101	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603027801	
(BSL05) Blank Panel	---	---	---	
(BSL06) Blank Panel	---	---	---	
(BSL07) Blank Panel	---	---	---	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063001	
(PSSL02) LVPS	HNS500	---	0620865	
<b>LPRM/APRM Unit Configuration</b>	HNU200	2Y8HF130 (Rev0)	00360013	
(FSL01) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064901	
(FSL02) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065001	
(FSL03) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065101	
(FSL04) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065201	
(FSL05) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065301	
(FSL06) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065401	
(FSL07) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065501	
(FSL08) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065601	
(FSL09) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065701	
(FSL10) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065801	
(FSL11) APRM Module	HNS020	2Y8HF002 (Rev1)	0604010401	
(FSL12)				
(FSL13) BLANK Panel	---	---	---	
(FSL14) STATUS Module	HNS091	2Y8HF009 (Rev0)	0603067801	
(PSSL01) LVPS Module	HNS500	---	0620866	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020201	
(BSL02) AO Module	HNS512	2Y8HF051 (Rev3)	0601018901	
(BSL03) AO Module	HNS511	2Y8HF051 (Rev3)	0601018201	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603027901	
(BSL05) RCV Module	HNS540	2Y8HF054 (Rev0)	0603066401	
(BSL06) Blank Panel	---	---	---	
(BSL07) Blank Panel	---	---	---	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063101	
(PSSL02) LVPS	HNS500	---	0620867	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
<b>Flow Unit Configuration</b>	HNU300	2Y8HF131 (Rev0)	00360017	5/25/06
(FSL01) BLANK Panel	---	---	---	
(FSL02) BLANK Panel	---	---	---	
(FSL03) BLANK Panel	---	---	---	
(FSL04) BLANK Panel	---	---	---	
(FSL05) BLANK Panel	---	---	---	
(FSL06) BLANK Panel	---	---	---	
(FSL07) BLANK Panel	---	---	---	
(FSL08) BLANK Panel	---	---	---	
(FSL09) BLANK Panel	---	---	---	
(FSL10) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066601	
(FSL11) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066701	
(FSL12) FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067101	
(FSL13)				
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067501	
(PSSL01) LVPS Module	HNS500	---	0620868	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020301	
(BSL02) AO Module	HNS512	2Y8HF051 (Rev3)	0601019001	
(BSL03) AO Module	HNS513	2Y8HF051 (Rev3)	0601019601	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603028001	
(BSL05) BLANK Panel	---	---	---	
(BSL06) BLANK Panel	---	---	---	
(BSL07) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063201	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063301	
(PSSL02) LVPS Module	HNS500	---	0620869	
<b>Flow Unit Configuration</b>	HNU300	2Y8HF131 (Rev0)	00360018	
(FSL01) BLANK Panel	---	---	---	
(FSL02) BLANK Panel	---	---	---	
(FSL03) BLANK Panel	---	---	---	
(FSL04) BLANK Panel	---	---	---	
(FSL05) BLANK Panel	---	---	---	
(FSL06) BLANK Panel	---	---	---	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(FSL07) BLANK Panel	---	---	---	5/25/06
(FSL08) BLANK Panel	---	---	---	
(FSL09) BLANK Panel	---	---	---	
(FSL10) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066801	
(FSL11) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066901	
(FSL12) FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067201	
(FSL13)				
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067601	
(PSSL01) LVPS Module	HNS500	---	0620870	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020401	
(BSL02) AO Module	HNS512	2Y8HF051 (Rev3)	0601019101	
(BSL03) AO Module	HNS513	2Y8HF051 (Rev3)	0601019701	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603028101	
(BSL05) BLANK Panel	---	---	---	
(BSL06) BLANK Panel	---	---	---	
(BSL07) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063401	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063501	
(PSSL02) LVPS Module	HNS500	---	0620871	
<b>Optical Cables for connection between above units configuration</b>				
Optical Cable	TK-G3004S/G1006L	---	327	
Optical Cable	TK-G3004S/G1006L	---	328	
Optical Cable	TK-G3004S/G1006L	---	329	
Optical Cable	TK-G3004S/G1006L	---	330	
<b>Spare parts Configuration</b>				
<b>Spare Chassis</b>				
Chassis for LPRM Unit	---	---	00360016	
Chassis for LPRM/APRM Unit	---	---	00360014	
Chassis for FLOW Unit	---	---	00360019	
<b>Spare Modules</b>				
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065901	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066001	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066101	



Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066201	5/25/06
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066301	
APRM Module	HNS020	2Y8HF002 (Rev1)	0604010501	
FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067301	
SQROOT Module	HNS030	2Y8HF003 (Rev2)	0603067001	
STATUS Module	HNS091	2Y8HF009 (Rev0)	0603067901	
STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067701	
BLANK Module	HNS490	2Y8HF049 (Rev1)	130001	
LVPS Module	HNS500	---	6620872	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018301	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018401	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018501	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018601	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018701	
AO Module	HNS512	2Y8HF051 (Rev3)	0601018801	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019201	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019301	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019401	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019501	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019801	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019901	
AO Module	HNS513	2Y8HF051 (Rev3)	0601020001	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020501	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020601	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020701	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020801	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020901	
AO Module	HNS514	2Y8HF051 (Rev3)	0601021001	
AO Module	HNS514	2Y8HF051 (Rev3)	0601021101	
DIO Module	HNS520	2Y8HF052 (Rev2)	0603020201	
TRN Module	HNS530	2Y8HF053 (Rev0)	0603063601	
RCV Module	HNS540	2Y8HF054 (Rev0)	0603066501	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
<b>Test Specimen Configuration</b>				
<b>LPRM Unit Configuration</b>	HNU100	2Y8HF129 (Rev0)	00360015	
(FSL01) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063701	
(FSL02) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063801	
(FSL03) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063901	
(FSL04) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064001	
(FSL05) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064101	
(FSL06) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064201	
(FSL07) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064301	
(FSL08) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064401	
(FSL09) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064501	
(FSL10) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064601	
(FSL11) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066201	
(FSL12) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064801	8/7/06
(FSL13) BLANK Module	HNS490	2Y8HF049 (Rev1)	0601021200	
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067401	
(PSSL01) LVPS Module	HNS500	---	0620864	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020101	
(BSL02) Blank Panel	---	---	---	
(BSL03) AO Module	HNS511	2Y8HF051 (Rev3)	0601018101	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603027801	
(BSL05) Blank Panel	---	---	---	
(BSL06) Blank Panel	---	---	---	
(BSL07) Blank Panel	---	---	---	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063601	
(PSSL02) LVPS	HNS500	---	0620865	
<b>LPRM/APRM Unit Configuration</b>	HNU200	2Y8HF130 (Rev0)	00360013	
(FSL01) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064901	
(FSL02) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065001	
(FSL03) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065101	
(FSL04) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065201	
(FSL05) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065301	
(FSL06) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065401	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(FSL07) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065501	8/7/06
(FSL08) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065601	
(FSL09) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065701	
(FSL10) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065801	
(FSL11) APRM Module	HNS020	2Y8HF002 (Rev1)	0604010401	
(FSL12)				
(FSL13) BLANK Panel	---	---	---	
(FSL14) STATUS Module	HNS091	2Y8HF009 (Rev0)	0603067801	
(PSSL01) LVPS Module	HNS500	---	0620866	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020201	
(BSL02) AO Module	HNS512	2Y8HF051 (Rev3)	0601018901	
(BSL03) AO Module	HNS511	2Y8HF051 (Rev3)	0601018201	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603027901	
(BSL05) RCV Module	HNS540	2Y8HF054 (Rev0)	0603066401	
(BSL06) Blank Panel	---	---	---	
(BSL07) Blank Panel	---	---	---	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063101	
(PSSL02) LVPS	HNS500	---	0620867	
<b>Flow Unit Configuration</b>	HNU300	2Y8HF131 (Rev0)	00360017	
(FSL01) BLANK Panel	---	---	---	
(FSL02) BLANK Panel	---	---	---	
(FSL03) BLANK Panel	---	---	---	
(FSL04) BLANK Panel	---	---	---	
(FSL05) BLANK Panel	---	---	---	
(FSL06) BLANK Panel	---	---	---	
(FSL07) BLANK Panel	---	---	---	
(FSL08) BLANK Panel	---	---	---	
(FSL09) BLANK Panel	---	---	---	
(FSL10) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066601	
(FSL11) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066701	
(FSL12) FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067101	
(FSL13)				
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067501	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(PSSL01) LVPS Module	HNS500	---	0620868	8/7/06
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020301	
(BSL02) AO Module	HNS512	2Y8HF051 (Rev3)	0601019001	
(BSL03) AO Module	HNS513	2Y8HF051 (Rev3)	0601019601	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603028001	
(BSL05) BLANK Panel	---	---	---	
(BSL06) BLANK Panel	---	---	---	
(BSL07) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063201	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063301	
(PSSL02) LVPS Module	HNS500	---	0620869	
<b>Flow Unit Configuration</b>	HNU300	2Y8HF131 (Rev0)	00360018	
(FSL01) BLANK Panel	---	---	---	
(FSL02) BLANK Panel	---	---	---	
(FSL03) BLANK Panel	---	---	---	
(FSL04) BLANK Panel	---	---	---	
(FSL05) BLANK Panel	---	---	---	
(FSL06) BLANK Panel	---	---	---	
(FSL07) BLANK Panel	---	---	---	
(FSL08) BLANK Panel	---	---	---	
(FSL09) BLANK Panel	---	---	---	
(FSL10) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066801	
(FSL11) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066901	
(FSL12) FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067201	
(FSL13)				
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067601	
(PSSL01) LVPS Module	HNS500	---	0620870	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020401	
(BSL02) AO Module	HNS512	2Y8HF051 (Rev3)	0601019101	
(BSL03) AO Module	HNS513	2Y8HF051 (Rev3)	0601019701	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603028101	
(BSL05) BLANK Panel	---	---	---	
(BSL06) BLANK Panel	---	---	---	
(BSL07) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063401	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063501	8/7/06
(PSSL02) LVPS Module	HNS500	---	0620871	
<b>Optical Cables for connection between above units configuration</b>				
Optical Cable	TK-G3004S/G1006L	---	327	
Optical Cable	TK-G3004S/G1006L	---	328	
Optical Cable	TK-G3004S/G1006L	---	329	
Optical Cable	TK-G3004S/G1006L	---	330	
<b>Spare parts Configuration</b>				
<b>Spare Chassis</b>				
Chassis for LPRM Unit	---	---	00360016	
Chassis for LPRM/APRM Unit	---	---	00360014	
Chassis for FLOW Unit	---	---	00360019	
<b>Spare Modules</b>				
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065901	
[Delete]	[Delete]	[Delete]	[Delete]	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066101	
[Delete]	[Delete]	[Delete]	[Delete]	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066301	
APRM Module	HNS020	2Y8HF002 (Rev1)	0604010501	
FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067301	
SQROOT Module	HNS030	2Y8HF003 (Rev2)	0603067001	
STATUS Module	HNS091	2Y8HF009 (Rev0)	0603067901	
STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067701	
BLANK Module	HNS490	2Y8HF049 (Rev1)	130001	
LVPS Module	HNS500	---	6620872	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018301	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018401	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018501	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018601	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018701	
AO Module	HNS512	2Y8HF051 (Rev3)	0601018801	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019201	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
AO Module	HNS512	2Y8HF051 (Rev3)	0601019301	8/7/06
AO Module	HNS512	2Y8HF051 (Rev3)	0601019401	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019501	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019801	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019901	
AO Module	HNS513	2Y8HF051 (Rev3)	0601020001	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020501	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020601	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020701	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020801	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020901	
AO Module	HNS514	2Y8HF051 (Rev3)	0601021001	
AO Module	HNS514	2Y8HF051 (Rev3)	0601021101	
DIO Module	HNS520	2Y8HF052 (Rev2)	0603020201	
[Delete]	[Delete]	[Delete]	[Delete]	
RCV Module	HNS540	2Y8HF054 (Rev0)	0603066501	
<b>Test Specimen Configuration</b>				8/24/07
<b>LPRM Unit Configuration</b>	HNU100	2Y8HF129 (Rev0)	00360015	
(FSL01) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707060901	
(FSL02) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061001	
(FSL03) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061101	
(FSL04) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061201	
(FSL05) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061301	
(FSL06) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061401	
(FSL07) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061501	
(FSL08) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061601	
(FSL09) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061701	
(FSL10) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061801	
(FSL11) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061901	
(FSL12) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062001	
(FSL13) BLANK Module	HNS490	2Y8HF049 (Rev1)	0601021200	
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067401	
(PSSL01) LVPS Module	HNS500	---	0620864	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(BSL01) AO Module	HNS518	2Y8HF051 (Rev5)	0707025700	8/24/07
(BSL02) Blank Panel	---	---	---	
(BSL03) AO Module	HNS515	2Y8HF051 (Rev5)	0707034900	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603027801	
(BSL05) Blank Panel	---	---	---	
(BSL06) Blank Panel	---	---	---	
(BSL07) Blank Panel	---	---	---	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063601	
(PSSL02) LVPS	HNS500	---	0620865	
<b>LPRM/APRM Unit Configuration</b>	HNU200	2Y8HF130 (Rev0)	00360013	
(FSL01) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062101	
(FSL02) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062201	
(FSL03) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062301	
(FSL04) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062401	
(FSL05) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062501	
(FSL06) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062601	
(FSL07) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062701	
(FSL08) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062801	
(FSL09) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062901	
(FSL10) LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063001	
(FSL11) APRM Module	HNS020	2Y8HF002 (Rev1)	0604010401	
(FSL12)				
(FSL13) BLANK Panel	---	---	---	
(FSL14) STATUS Module	HNS091	2Y8HF009 (Rev0)	0603067801	
(PSSL01) LVPS Module	HNS500	---	0620866	
(BSL01) AO Module	HNS518	2Y8HF051 (Rev5)	0707025800	
(BSL02) AO Module	HNS516	2Y8HF051 (Rev5)	0707031800	
(BSL03) AO Module	HNS515	2Y8HF051 (Rev5)	0707035000	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603027901	
(BSL05) RCV Module	HNS540	2Y8HF054 (Rev0)	0603066401	
(BSL06) Blank Panel	---	---	---	
(BSL07) Blank Panel	---	---	---	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063101	8/24/07
(PSSL02) LVPS	HNS500	---	0620867	
<b>Flow Unit Configuration</b>	HNU300	2Y8HF131 (Rev0)	00360017	
(FSL01) BLANK Panel	---	---	---	
(FSL02) BLANK Panel	---	---	---	
(FSL03) BLANK Panel	---	---	---	
(FSL04) BLANK Panel	---	---	---	
(FSL05) BLANK Panel	---	---	---	
(FSL06) BLANK Panel	---	---	---	
(FSL07) BLANK Panel	---	---	---	
(FSL08) BLANK Panel	---	---	---	
(FSL09) BLANK Panel	---	---	---	
(FSL10) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066601	
(FSL11) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066701	
(FSL12) FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067101	
(FSL13)				
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067501	
(PSSL01) LVPS Module	HNS500	---	0620868	
(BSL01) AO Module	HNS518	2Y8HF051 (Rev5)	0707025900	
(BSL02) AO Module	HNS516	2Y8HF051 (Rev5)	0707031900	
(BSL03) AO Module	HNS517	2Y8HF051 (Rev5)	0707029500	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603028001	
(BSL05) BLANK Panel	---	---	---	
(BSL06) BLANK Panel	---	---	---	
(BSL07) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063201	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063301	
(PSSL02) LVPS Module	HNS500	---	0620869	
<b>Flow Unit Configuration</b>	HNU300	2Y8HF131 (Rev0)	00360018	
(FSL01) BLANK Panel	---	---	---	
(FSL02) BLANK Panel	---	---	---	
(FSL03) BLANK Panel	---	---	---	
(FSL04) BLANK Panel	---	---	---	
(FSL05) BLANK Panel	---	---	---	



Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(FSL06) BLANK Panel	---	---	---	8/24/07
(FSL07) BLANK Panel	---	---	---	
(FSL08) BLANK Panel	---	---	---	
(FSL09) BLANK Panel	---	---	---	
(FSL10) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066801	
(FSL11) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066901	
(FSL12) FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067201	
(FSL13)				
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067601	
(PSSL01) LVPS Module	HNS500	---	0620870	
(BSL01) AO Module	HNS518	2Y8HF051 (Rev5)	0707026000	
(BSL02) AO Module	HNS516	2Y8HF051 (Rev5)	0707032000	
(BSL03) AO Module	HNS517	2Y8HF051 (Rev5)	0707029600	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603028101	
(BSL05) BLANK Panel	---	---	---	
(BSL06) BLANK Panel	---	---	---	
(BSL07) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063401	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063501	
(PSSL02) LVPS Module	HNS500	---	0620871	
<b>Optical Cables for connection between above units configuration</b>				
Optical Cable	TK-G3004S/G1006L	---	327	
Optical Cable	TK-G3004S/G1006L	---	328	
Optical Cable	TK-G3004S/G1006L	---	329	
Optical Cable	TK-G3004S/G1006L	---	330	
<b>Spare parts Configuration</b>				
<b>Spare Chassis</b>				
Chassis for LPRM Unit	---	---	00360016	
Chassis for LPRM/APRM Unit	---	---	00360014	
Chassis for FLOW Unit	---	---	00360019	
<b>Spare Modules</b>				
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065901	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066001	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066101	8/24/07
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066201	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066301	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063701	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063801	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063901	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064001	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064101	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064201	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064301	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064401	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064501	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064601	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064701	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064801	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064901	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065001	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065101	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065201	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065301	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065401	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065501	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065601	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065701	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065801	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063101	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063201	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063301	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063401	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063501	
APRM Module	HNS020	2Y8HF002 (Rev1)	0604010501	
FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067301	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
SQROOT Module	HNS030	2Y8HF003 (Rev2)	0603067001	8/24/07
STATUS Module	HNS091	2Y8HF009 (Rev0)	0603067901	
STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067701	
BLANK Module	HNS490	2Y8HF049 (Rev1)	130001	
LVPS Module	HNS500	---	6620872	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018301	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018401	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018501	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018601	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018701	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018101	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018201	
AO Module	HNS512	2Y8HF051 (Rev3)	0601018801	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019201	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019301	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019401	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019501	
AO Module	HNS512	2Y8HF051 (Rev3)	0601018901	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019001	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019101	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019801	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019901	
AO Module	HNS513	2Y8HF051 (Rev3)	0601020001	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019601	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019701	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020501	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020601	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020701	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020801	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020901	
AO Module	HNS514	2Y8HF051 (Rev3)	0601021001	
AO Module	HNS514	2Y8HF051 (Rev3)	0601021101	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020101	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
AO Module	HNS514	2Y8HF051 (Rev3)	0601020201	8/24/07
AO Module	HNS514	2Y8HF051 (Rev3)	0601020301	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020401	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035100	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035200	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035300	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035400	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035500	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032100	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032200	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032300	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032400	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032500	
AO Module	HNS517	2Y8HF051 (Rev5)	0707029700	
AO Module	HNS517	2Y8HF051 (Rev5)	0707029800	
AO Module	HNS517	2Y8HF051 (Rev5)	0707029900	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026100	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026200	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026300	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026400	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026500	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026600	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026700	
DIO Module	HNS520	2Y8HF052 (Rev2)	0603020201	
[Delete]	[Delete]	[Delete]	[Delete]	
RCV Module	HNS540	2Y8HF054 (Rev0)	0603066501	
<b>Test Specimen Configuration</b>				2/20/08
LPRM Unit Configuration	HNU100	2Y8HF129 (Rev0)	00360015	
(FSL01) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063701	
(FSL02) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063801	
(FSL03) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603063901	
(FSL04) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064001	
(FSL05) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064101	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(FSL06) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064201	2/20/08
(FSL07) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064301	
(FSL08) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064401	
(FSL09) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064501	
(FSL10) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064601	
(FSL11) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066201	
(FSL12) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064801	
(FSL13) BLANK Module	HNS490	2Y8HF049 (Rev1)	0601021200	
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067401	
(PSSL01) LVPS Module	HNS500	---	0620864	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020101	
(BSL02) Blank Panel	---	---	---	
(BSL03) AO Module	HNS511	2Y8HF051 (Rev3)	0601018101	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603027801	
(BSL05) Blank Panel	---	---	---	
(BSL06) Blank Panel	---	---	---	
(BSL07) Blank Panel	---	---	---	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063601	
(PSSL02) LVPS	HNS500	---	0620865	
LPRM/APRM Unit Configuration	HNU200	2Y8HF130 (Rev0)	00360013	
(FSL01) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603064901	
(FSL02) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065001	
(FSL03) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065101	
(FSL04) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065201	
(FSL05) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065301	
(FSL06) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065401	
(FSL07) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065501	
(FSL08) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065601	
(FSL09) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065701	
(FSL10) LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065801	
(FSL11) APRM Module	HNS020	2Y8HF002 (Rev1)	0604010401	
(FSL12)				
(FSL13) BLANK Panel	---	---	---	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(FSL14) STATUS Module	HNS091	2Y8HF009 (Rev0)	0603067801	2/20/08
(PSSL01) LVPS Module	HNS500	---	0620866	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020201	
(BSL02) AO Module	HNS512	2Y8HF051 (Rev3)	0601018901	
(BSL03) AO Module	HNS511	2Y8HF051 (Rev3)	0601018201	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603027901	
(BSL05) RCV Module	HNS540	2Y8HF054 (Rev0)	0603066401	
(BSL06) Blank Panel	---	---	---	
(BSL07) Blank Panel	---	---	---	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063101	
(PSSL02) LVPS	HNS500	---	0620867	
Flow Unit Configuration	HNU300	2Y8HF131 (Rev0)	00360017	
(FSL01) BLANK Panel	---	---	---	
(FSL02) BLANK Panel	---	---	---	
(FSL03) BLANK Panel	---	---	---	
(FSL04) BLANK Panel	---	---	---	
(FSL05) BLANK Panel	---	---	---	
(FSL06) BLANK Panel	---	---	---	
(FSL07) BLANK Panel	---	---	---	
(FSL08) BLANK Panel	---	---	---	
(FSL09) BLANK Panel	---	---	---	
(FSL10) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066601	
(FSL11) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066701	
(FSL12) FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067101	
(FSL13)				
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067501	
(PSSL01) LVPS Module	HNS500	---	0620868	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020301	
(BSL02) AO Module	HNS512	2Y8HF051 (Rev3)	0601019001	
(BSL03) AO Module	HNS513	2Y8HF051 (Rev3)	0601019601	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603028001	
(BSL05) BLANK Panel	---	---	---	
(BSL06) BLANK Panel	---	---	---	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
(BSL07) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063201	2/20/08
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063301	
(PSSL02) LVPS Module	HNS500	---	0620869	
Flow Unit Configuration	HNU300	2Y8HF131 (Rev0)	00360018	
(FSL01) BLANK Panel	---	---	---	
(FSL02) BLANK Panel	---	---	---	
(FSL03) BLANK Panel	---	---	---	
(FSL04) BLANK Panel	---	---	---	
(FSL05) BLANK Panel	---	---	---	
(FSL06) BLANK Panel	---	---	---	
(FSL07) BLANK Panel	---	---	---	
(FSL08) BLANK Panel	---	---	---	
(FSL09) BLANK Panel	---	---	---	
(FSL10) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066801	
(FSL11) SQ-ROOT Module	HNS030	2Y8HF003 (Rev2)	0603066901	
(FSL12) FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067201	
(FSL13)				
(FSL14) STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067601	
(PSSL01) LVPS Module	HNS500	---	0620870	
(BSL01) AO Module	HNS514	2Y8HF051 (Rev3)	0601020401	
(BSL02) AO Module	HNS512	2Y8HF051 (Rev3)	0601019101	
(BSL03) AO Module	HNS513	2Y8HF051 (Rev3)	0601019701	
(BSL04) DIO Module	HNS520	2Y8HF052 (Rev2)	0603028101	
(BSL05) BLANK Panel	---	---	---	
(BSL06) BLANK Panel	---	---	---	
(BSL07) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063401	
(BSL08) TRN Module	HNS530	2Y8HF053 (Rev0)	0603063501	
(PSSL02) LVPS Module	HNS500	---	0620871	
<b>Optical Cables for connection between above units configuration</b>				
Optical Cable	TK-G3004S/G1006L	---	327	
Optical Cable	TK-G3004S/G1006L	---	328	
Optical Cable	TK-G3004S/G1006L	---	329	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
Optical Cable	TK-G3004S/G1006L	---	330	2/20/08
<b>Spare parts Configuration</b>				
<b>Spare Chassis</b>				
Chassis for LPRM Unit	---	---	00360016	
Chassis for LPRM/APRM Unit	---	---	00360014	
Chassis for FLOW Unit	---	---	00360019	
<b>Spare Modules</b>				
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603065901	
[Delete]	[Delete]	[Delete]	[Delete]	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066101	
[Delete]	[Delete]	[Delete]	[Delete]	
LPRM Module	HNS011	2Y8HF001 (Rev1)	0603066301	
APRM Module	HNS020	2Y8HF002 (Rev1)	0604010501	
FLOW Module	HNS040	2Y8HF004 (Rev1)	0603067301	
SQROOT Module	HNS030	2Y8HF003 (Rev2)	0603067001	
STATUS Module	HNS091	2Y8HF009 (Rev0)	0603067901	
STATUS Module	HNS093	2Y8HF009 (Rev0)	0603067701	
BLANK Module	HNS490	2Y8HF049 (Rev1)	130001	
LVPS Module	HNS500	---	6620872	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018301	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018401	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018501	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018601	
AO Module	HNS511	2Y8HF051 (Rev3)	0601018701	
AO Module	HNS512	2Y8HF051 (Rev3)	0601018801	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019201	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019301	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019401	
AO Module	HNS512	2Y8HF051 (Rev3)	0601019501	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019801	
AO Module	HNS513	2Y8HF051 (Rev3)	0601019901	
AO Module	HNS513	2Y8HF051 (Rev3)	0601020001	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020501	



Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
AO Module	HNS514	2Y8HF051 (Rev3)	0601020601	2/20/08
AO Module	HNS514	2Y8HF051 (Rev3)	0601020701	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020801	
AO Module	HNS514	2Y8HF051 (Rev3)	0601020901	
AO Module	HNS514	2Y8HF051 (Rev3)	0601021001	
AO Module	HNS514	2Y8HF051 (Rev3)	0601021101	
DIO Module	HNS520	2Y8HF052 (Rev2)	0603020201	
[Delete]	[Delete]	[Delete]	[Delete]	
RCV Module	HNS540	2Y8HF054 (Rev0)	0603066501	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063101	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063201	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063301	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063401	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063501	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035100	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035200	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035300	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035400	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035500	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032100	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032200	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032300	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032400	
AO Module	HNS516	2Y8HF051 (Rev5)	0707032500	
AO Module	HNS517	2Y8HF051 (Rev5)	0707029700	
AO Module	HNS517	2Y8HF051 (Rev5)	0707029800	
AO Module	HNS517	2Y8HF051 (Rev5)	0707029900	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026100	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026200	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026300	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026400	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026500	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026600	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
AO Module	HNS518	2Y8HF051 (Rev5)	0707026700	2/20/08
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707060901	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061001	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061101	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061201	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061301	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061401	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061501	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061601	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061701	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061801	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707061901	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062001	
AO Module	HNS518	2Y8HF051 (Rev5)	0707025700	
AO Module	HNS515	2Y8HF051 (Rev5)	0707034900	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062101	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062201	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062301	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062401	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062501	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062601	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062701	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062801	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707062901	
LPRM Module	HNS013	2Y8HF001 (Rev6)	0707063001	
APRM Module	HNS020	2Y8HF002 (Rev1)	0604010401	
AO Module	HNS518	2Y8HF051 (Rev5)	0707025800	
AO Module	HNS516	2Y8HF051 (Rev5)	0707031800	
AO Module	HNS515	2Y8HF051 (Rev5)	0707035000	
AO Module	HNS518	2Y8HF051 (Rev5)	0707025900	
AO Module	HNS516	2Y8HF051 (Rev5)	0707031900	
AO Module	HNS517	2Y8HF051 (Rev5)	0707029500	
AO Module	HNS518	2Y8HF051 (Rev5)	0707026000	

Description	Model No.	Assembly Doc.(with Rev No.)	Serial No.	Date
AO Module	HNS516	2Y8HF051 (Rev5)	0707032000	2/20/08
AO Module	HNS517	2Y8HF051 (Rev5)	0707029600	

### 3. Software Configuration

FPGA Specification	Document Number	Revision	Approval Date
STSIF FPGA Design Specification	FPG-VDN-C51-0021	3	12/25/07
TRNAD FPGA Design Specification	FPG-VDN-C51-0022	2	12/25/07
TRNUNIT FPGA Design Specification	FPG-VDN-C51-0023	0	2/6/06
TRNOPT FPGA Design Specification	FPG-VDN-C51-0024	2	12/25/07
RCVUNIT FPGA Design Specification	FPG-VDN-C51-0025	3	12/25/07
SQLCUT FPGA Design Specification	FPG-VDN-C51-0026	2	12/25/07
SQPS FPGA Design Specification	FPG-VDN-C51-0027	2	12/25/07
SQEVMON FPGA Design Specification	FPG-VDN-C51-0028	2	12/25/07
SQPANEL FPGA Design Specification	FPG-VDN-C51-0029	2	12/25/07
LPFILTER FPGA Design Specification	FPG-VDN-C51-0032	2	12/25/07
LPALARM FPGA Design Specification	FPG-VDN-C51-0033	1	3/10/06
LPPARAM FPGA Design Specification	FPG-VDN-C51-0034	2	12/25/07
LPPANEL FPGA Design Specification	FPG-VDN-C51-0035	2	3/17/06
FLCALC FPGA Design Specification	FPG-VDN-C51-0038	0	2/22/06
FLTRIP FPGA Design Specification	FPG-VDN-C51-0039	1	12/25/07
FLPS FPGA Design Specification	FPG-VDN-C51-0040	0	2/22/06
FLPANEL FPGA Design Specification	FPG-VDN-C51-0041	0	3/3/06
SQFILTER FPGA Design Specification	FPG-VDN-C51-0042	2	12/25/07
RCVOPT FPGA Design Specification	FPG-VDN-C51-0043	1	12/25/07
APLPRCV FPGA Design Specification	FPG-VDN-C51-0064	1	12/25/07
APAVE FPGA Design Specification	FPG-VDN-C51-0065	1	12/25/07
APTPM FPGA Design Specification	FPG-VDN-C51-0066	1	12/25/07
APHIGH FPGA Design Specification	FPG-VDN-C51-0067	1	12/25/07
APFLRCV FPGA Design Specification	FPG-VDN-C51-0068	0	3/25/06
APPARAM FPGA Design Specification	FPG-VDN-C51-0069	1	12/25/07
APSWIF FPGA Design Specification	FPG-VDN-C51-0070	0	3/23/06
APTRIP FPGA Design Specification	FPG-VDN-C51-0071	1	12/25/07
APMUX FPGA Design Specification	FPG-VDN-C51-0072	2	12/25/07
APPANEL1 FPGA Design Specification	FPG-VDN-C51-0073	0	3/23/06
APPANEL2 FPGA Design Specification	FPG-VDN-C51-0074	1	12/25/07