ABS
FOUNDED 1862

CERTIFICATE NUMBER	DATE
16-HG1527910-PDA	14 Jun 2016

ABS TECHNICAL OFFICE
Hamburg Engineering Department

CERTIFICATE OF

DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of

SAIA-BURGESS CONTROLS AG

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Programmable Logic Controller**
Model: **PCD 3**

This Product Design Assessment (PDA) Certificate 16-HG1527910-PDA, dated 14/Jun/2016 remains valid until 13/Jun/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

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Tier: 5 - Unit Certification Required

Product: **Programmable Logic Controller**

Model: **PCD 3**

Intended Service:
Process control units for Marine, Offshore and Industrial Applications

Description:
The PCD3 Process Control Device can be configured as a centralized system consisting of the CPU unit, communication modules and up to 1023 associated analogue, digital and motion I/O channels, or decentralized system. In the decentralised configuration, the PCD3 CPU could communicate with other PCD3.T66x (via Ethernet) or PCD3.T76x extension modules with each up to 256 associated I/O channels and or a PCD2 control device via Profibus or Profi-S-Net.
The PCD.M20/21/22/23xx compact CPUs offers a set of digital and analogue I/O's already included in the base unit.
The I/O extension connector gives the possibility to use one PCD3.C200 or PCD3.C110 extension.

Rating:
Nominal voltage: 24 V DC;
Operating Temperature: 0 to 55 Deg.C;
Protection Rating: IP20

Service Restriction:
Unit Certification is required for this product by the user to customize this equipment where it is used for Category II or III services as described in Section 4-9-3/Table 1 of the Steel Vessel Rules.
PCD3.T76X series requires montage with ferrites to comply with EMC requirements. Installation to be made according to manufacturer instruction.

Comments:
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
Each particular application/ configuration and the user operating software is to be specifically approved in conjunction with the relevant system in which the PC units are being used.
System Category III. Manufacturer is to keep evidence of quality plan for software, inspection of hardware components from sub-suppliers and quality control in production. Performance integration, fault simulation, final system factory acceptance tests, on-board system and integration tests to be witnessed by the Surveyor.

Notes/Drawing/Documentation:
Drawing No. 16009-LOM-ABS_based_on_06-LD147305-2-PDA_sent_20160606, List of Modules, Revision: 02, Pages: 4
Drawing No. 26-215_ENG13_SBC-SystemCatalogue, System Catalogue SBC PCD, Revision: 13, Pages: 301
Drawing No. PCD3_M_26-215_EN12_CC14_ChA0160_Standby-Controller, Manual Standby Controller, Revision: 01, Pages: 8
Drawing No. PCD3_M_26-215_EN12_ChA0120_AutomationStations_PCD3, Manual PCD3, Revision: 12, Pages: 26
Drawing No. PCD3_M_26-789_EN_Manual_PCD3_01, Manual PCD3, Revision: 18, Pages: 145
Drawing No. PCD3_M_2nd_ETH_Extension_463672220b_Module, Hardware Module / BOM, Revision: a, Pages: 3
Drawing No. PCD3_M_2nd_ETH_Extension_conn_124466137a_Schematics, Hardware Module / Schematics, Revision: a, Pages: 1
Drawing No. PCD3_M_2nd_ETH_Extension_main_124466136a_Schematics, Hardware Module / Schematics, Revision: a, Pages: 5
Drawing No. PCD3_M_2nd_ETH_Extension_main_463672210c_Module, Hardware Module / BOM, Revision: 01, Pages: 7
Drawing No. PCD3_M_BatteryModule_124465902_Schematics, Hardware Module / Schematics, Revision: b, Pages: 1
Drawing No. PCD3_M_BatteryModule_463667940_Module, Hardware Module / BOM, Revision: b, Pages: 5
Drawing No. PCD3_M_BatteryModule_463948980_Module_molded, Hardware Module / Construction / Test, Revision: c, Pages: 2

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Drawing No. PCD3_M_CAN_Extension_463669100_Module, Hardware Module / BOM, Revision: a, Pages: 6

Drawing No. PCD3_M_CAN_Extension_c_124465936_Schematics, Hardware Module / Schematics, Revision: a, Pages: 3

Drawing No. PCD3_M_DP_Master_Extension_463669490_Module, Hardware Module / BOM, Revision: a, Pages: 8

Drawing No. PCD3_M_DP_Master_Extension_e_124466005_Schematics, Hardware Module / Schematics, Revision: a, Pages: 5

Drawing No. PCD3_M_Extension_463667920_Module, Hardware Module / BOM, Revision: c, Pages: 6

Drawing No. PCD3_M_Extension_g_124465900_Schematics, Hardware Module / Schematics, Revision: b, Pages: 3

Drawing No. PCD3_M_Manual_Standby System User Manual, Manual Standby System, Revision: 01, Pages: 42

Drawing No. PCD3_M_Testreport_14022-MP-PCD3_M6860_DNV_TATR, Testreport, Revision: 01, Pages: 53

Drawing No. PCD3_M_Testreport_7375 PCD3 Vibration-Shock.pdf, Testreport Vibration, Revision: 01, Pages: 17

Drawing No. PCD3_M_Testreport_MES_Saia_13-MO-0070_PCD3.M6860_2014-09-23, Testreport EMC, Revision: 01, Pages: 3

Drawing No. PCD3_M_Testreport_MES_Saia_13-MO-0070_PCD3.M6860_HWD_2014-07-03, Testreport EMC, Revision: 01, Pages: 7

Drawing No. PCD3_M_Testreport_MES_Saia_13-MO-0070_PCD3.M6860_HWD_2014-11-07, Testreport EMC, Revision: 01, Pages: 3

Drawing No. PCD3_M_Testreport_MES_Saia_13-MO-0070_PCD3.M6860_HWD_2015-03-05, Testreport EMC, Revision: 01, Pages: 12

Drawing No. PCD3_Mxx6x_CPU_124466058_Schematics, Hardware Board / Schematics, Revision: d, Pages: 9

Drawing No. PCD3_Mxx6x_CPU_124466076_F_Main_List_of_Parts, Hardware Board / Main List of Parts, Revision: f, Pages: 4

Drawing No. PCD3_Mxx6x_CPU_463670680_Board, Hardware Board / BOM, Revision: f, Pages: 9

Drawing No. PCDxF2xxx_124465978_PCD3F2xx_Schematics, F2xxx Module / Schematics, Revision: c, Pages: 4

Drawing No. PCDxF2xxx_124465979_PCD3F21x_Main_List_of_Parts, F21xx Module / List of Parts, Revision: e, Pages: 1

Drawing No. PCDxF2xxx_124465980_PCD3F22x_Main_List_of_Parts, F22xx Module / List of Parts, Revision: d, Pages: 1

Drawing No. PCDxF2xxx_124466014_PCD3F28x_Schematics, F28xx Module / Schematics, Revision: b, Pages: 4

Drawing No. PCDxF2xxx_124466015_PCD3F28x_Main_List_of_Parts, F28xx Module / List of Parts, Revision: d, Pages: 1

Drawing No. PCDxF2xxx_124466084_PCD3F27x_Schematics, F27xx Module / Schematics, Revision: a, Pages: 8

Drawing No. PCDxF2xxx_124466095_PCD3F27x_Main_List_of_Parts, F27xx Module / List of Parts, Revision: c, Pages: 6

Drawing No. PCDxF2xxx_124466099_PCD3F26x_Schematics, F26xx Module (DALI) / Schematics, Revision: e, Pages: 4

Drawing No. PCDxF2xxx_124466114_PCD3F26x_Main_List_of_Parts, F26xx Module (DALI) / List of Parts, Revision: c, Pages: 1

Drawing No. PCDxF2xxx_124466145_PCD3F24x_Schematics, F24xx Module / Schematics, Revision: b, Pages: 4

Drawing No. PCDxF2xxx_124466181_PCD3F24x_Main_List_of_Parts, F24xx Module / List of Parts, Revision: a, Pages: 2

Drawing No. PCDxF2xxx_27-603_EN_Manual_M-Bus-Module_PCD2F27x-PCD3F27xx, Manual M-Bus, Revision: 01, Pages: 15

Drawing No. PCDxF2xxx_463669870_PCD3F21x_Module, F21xx Module / BOM, Revision: e, Pages: 5

Drawing No. PCDxF2xxx_463669880_PCD3F22x_Module, F22xx Module / BOM, Revision: e, Pages: 4

Drawing No. PCDxF2xxx_463670250_PCD3F28x_Module, F28xx Module / BOM, Revision: c, Pages: 4

Drawing No. PCDxF2xxx_463671600_PCD3F27x_Module, F27xx Module / BOM, Revision: c, Pages: 6

Drawing No. PCDxF2xxx_463671830_PCD3F26x_Module, F26xx Module (DALI) / BOM, Revision: e, Pages: 10

Drawing No. PCDxF2xxx_463672380_PCD3F24x_Module, F24xx Module / BOM, Revision: b, Pages: 6

Drawing No. PCDxF2xxx_Testreport_12011-MP_DNV_TATR-PCD3F27x, Testreport Type Approval M-Bus, Revision: 01, Pages: 33

Drawing No. PCDxF2xxx_Testreport_12012-MP_DNV_TATR-PCD3F2xx, Testreport Type Approval, Revision: 01, Pages: 31

Drawing No. PCDxF2xxx_Testreport_MES_Saia_M-Bus_20120285_MaC, Testreport EMC, Revision: 01, Pages: 17

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Drawing No. PCDxF2xxx_Testreport_RUAG-5286 PCD3C Vibration-Shock, Testreport Vibration, Revision: 01, Pages: 11
Drawing No. PCDxF2xxx_Testreport_Rap_MES_Saia_M-Bus_20120285_05.06.2012, Testreport EMC Immunity, Revision: 01, Pages: 4

Terms of Validity:
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STANDARDS

ABS Rules:
2016 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-9-3/1/11 and 4-9-8/13
2016 Mobile Offshore Drilling Unit Rules 1-1-4/9.7, 1-1-Appendix 2 and 3, 4-3-4/5

National:
UL 508 (Edition 1999)

International:
NA

Government:
NA

EUMED:
NA

OTHERS:
NA

Product Design Assessment (PDA) Certificate for Component Details

PDA Certificate No: 16-HG1527910-PDA
Company: Saia-Burgess Controls AG
Product/Equipment: Programmable Logic Controller
Model: PCD3

The certificate as mentioned above makes reference to the following list of Certified Modules.
Each version of PCD3.M, .C or .T may be followed by Z05, which designates the model being electrically isolated from earth/ protective ground.

Product description

Module	Module related Subcategories	Description
	Series PCD3.M2 Programmable Controller	
PCD3	.M2030V6	Compact PLC with 512 KB user program memory, 20 dig. IN, 12 dig. OUT, 4 analog IN, 2 analog OUT. Expandable to max. 102 I/Os, backup with onboard Flash memory, 1 MByte file system, USB port for programming with PG5, RS485, 2 Interrupts, integral Web & FTP server, 1 port (socket A) for communication interface PCD7.F1xx, lithium battery
	.M2130V6	Same as .M2030, but with Ethernet TCP/IP
	.M2137V6	Same as .M2130, but programmable with Siemens Step 7
	.M2330A4T1 .M2330A4T3 .M2330A4T5	Compact PLC with 512 KB user program memory, 8 dig. IN, 2 dig. OUT, 4 analog IN, 1 Telecom port for PSTN ($\rightarrow$T1), ISDN ($\rightarrow$T3) or GSM/GPRS ($\rightarrow$T5), expandable to max. 78 I/Os
	.M2230A4T5	Same as .PCD3.M2330A4T5, but without Ethernet TCP/IP
PCD3	**Series PCD3.M3 Programmable Controller**	
	.M3020 .M3120 .M3160 .M3230 .M3330 .M3360	PLC with 128/256/256 Kbytes of user memory, Backup with internal flash memory, USB port for PG5, max. 64/1023/1023 digital I/O, 2 interrupt inputs, Web-server, RS485 for Profi-S-Net or S-bus, PCD3.M3120 and PCD3.M330 with Ethernet TCP/IP. Models PCD3.Mxx60 are the high power CPU version of the corresponding standard CPU
	.R010	Battery module for PCD3.M3xxx

Product Design Assessment (PDA) Certificate for Component Details

PDA Certificate No: 16-HG1527910-PDA
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Product/Equipment: Programmable Logic Controller
Model: PCD3

Product description (continued)

Module	Module related Subcategories	Description
	Series PCD3.M5 Programmable Controller	
PCD3	.M5340 .M5360 .M5440 .M5540	PLC with 512 Kbytes of user memory, max. 1023 digital I/O, 2 interrupt inputs, run/stop switch. Web server, backup option with PCD7.R500 flash card Data protection 1 … 3 years with lithium battery. USB port for PG5, RS232, RS485 for Profi-S-Net and RS485 for S-bus, .M5340 with switchable RS485/RS422, .M5340/.M5540 is with Ethernet TCP/IP
	.M5447 .M5547	Similar to .M5440 but programmable with Siemens Step 7 Similar to .M5540 but programmable with Siemens Step 7
	.M5560	High power CPU basic module with Ethernet TCP/IP, 2 MB of program memory
	.M5567	Similar to .M5560 but programmable with Siemens Step 7
	Series PCD3.M6 Programmable Controller	
PCD3	.M6340 .M6347	Similar to .M5540 but with CAN interface Similar to .M6340 but programmable with Siemens Step 7
	.M6360	High power CPU basic module with Ethernet TCP/IP and CAN interface, 2 MB of program memory
	.M6367	Similar to .M6360 but programmable with Siemens Step 7
	.M6560	High power CPU basic module with Ethernet TCP/IP and Profibus-DP master 12 Mbits, 2 MB of program memory
	.M6567	Similar to .M6560 but programmable with Siemens Step 7
	.M6860	Standby controller with 2 Ethernet TCP/IP ports and coprocessor for standby operation
	.M6880	Similar to .M6860 but for standby operation
	.M5 Battery Module	Holder for lithium battery and LED for CPU status

Product Design Assessment (PDA) Certificate for Component Details

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Product/Equipment: Programmable Logic Controller
Model: PCD3

Product description (continued)

Module	Module related Subcategories	Description
PCD3	**RIO Head Station**	
	.T660	PCD3 Ethernet RIO Head station (as PCD3.M3330)
	.T665	PCD3 Ethernet RIO Head station (strip down version of PCD.M3330), 32 KB program memory, 256 KB on-board-file system
	.T666	PCD3 Ethernet RIO Head station (strip down version of PCD3.M3330), 128 KB program memory, 512 KB on-board-file system, onboard RS485 interface
	.T667	Same as .T66x, compatible with Siemens Step 7
	.T668	Smart RIO, as .T666, but for operation with standby CPU
	.T76x .T26x	Profibus DP RIO head station with 4 I/O module slots, Profibus DP/ Profi-S-Net connection and integral web server, 24 V DC supply
PCD3	**Extension Module**	
	.C100	Extension housing with 4 I/O module sockets
	.C110	Extension housing with 2 I/O module sockets
	.C200	Similar to PCD3.C100, with 24 V DC power supply

Product Design Assessment (PDA) Certificate for Component Details

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Product/Equipment: Programmable Logic Controller
Model: PCD3

Product description (continued)

Module	Module related Subcategories	Description
	Communication Module	
PCD3	.F1xx	Incl. PCD7.F1xxS
	.F110/ .F121/ .F130/ .F150	Serial interface modules RS422/485, RS232, current loop 20 mA, RS485 with galvanic isolation
	.F1xxR500	F1xx Serial interface module as above with Flash memory for user program backup
	.F180	Serial interface module for Belimo MP-Bus, max 8 actuators and sensors connectable
	.F210	RS422/ RS485 and optional PCD7.F1xxS
	.F215	BACnet® MS/TP and optional PCD7.F1xxS
	.F221	RS232 full and optional PCD7.F1xxS
	.F240	LONFFT10 and optional PCD7.F1xxS
	.F261	DALI incl. bus power supply
	.F270	M-Bus Master interface for up to 240 slaves
	.F271	M-Bus Master interface for up to 20 slaves
	.F272	M-Bus Master interface for up to 60 slaves
	.F273	M-Bus Master interface for up to 120 slaves
	.F281	Belimo MP-Bus and optional PCD7.F1xxS
	Digital I/O Modules	
PCD3	.A200	Digital output module, 4 relays, 250VAC / 2A, make contact with contact protection
	.A210	Digital output module, 4 relays, 250VAC / 2A, brake contact with contact protection
	.A220	Digital output module, 2 x 3 relays, 250VAC / 2A, make contact w/o contact protection
	.A25x	Digital output module, 8 relays 48VAC / 2A or 50VDC / 2A with 6 change-over contacts and 2 make contacts. Connection via 24-pole cage clamp terminal block
	.A300	Digital output module, 6 transistor outputs 10..32VDC / 2A
	.A400	Digital output module, 8 transistor outputs 5..32VDC / 0.5A
	.A410	Digital output module, 8 transistor outputs 5..32VDC / 0.5A, electrically isolated from PCD3 bus
	.A460	Digital output module, 16 transistor outputs 10..32VDC / 0.5A, ribbon cable connector for PCD3.K2xx
	.A465	Digital output module, 16 transistor outputs 10..32VDC / 0.5A, connection for spring terminals

Product Design Assessment (PDA) Certificate for Component Details

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Product/Equipment: Programmable Logic Controller
Model: PCD3

Product description (continued)

Module	Module related Subcategories	Description
PCD3	**Digital I/O Module**	
	.A810	Digital manual control module with 4 relays outputs: 2 x 'changeover' contacts, 2 x 'make' contacts
	.A860	Light and shades control module with 2 x relay outputs 250 V AC/ 12 A, 2 x digital inputs 24 V DC
	.B100	Digital input/output module, 2 inputs, 2 outputs and 4 configurable inputs / outputs, Inputs : 24 VDC / delay 8 ms, outputs: breaking capacity 0.5 A / 5..32 VDC
	.E110	Digital input module, 8 inputs, 24 VDC, source and sink operation, 8 ms input delay
	.E111	As .E110 with 0.2 ms input delay
	.E116	Digital input modules, 8 inputs, 5 V DC, source and sink operation, 0.2 ms input delay
	.E160	Digital input module, 16 inputs, 24 VDC, source and sink operation, 8 ms input delay, cable with ribbon cable connector for PCD3.K2xx/.K3xx
	.E161	As E160 with 0.2 ms input delay
	.E165	Digital input module, 16 inputs, 24 VDC, source and sink operation, 8 ms input delay, connection for spring terminals
	.E166	Digital input module, 16 inputs, 24 VDC, source and sink operation, 0.2 ms input delay, connection with spring terminals to max 0.5 mm²
	.E500	Digital input module, 6 inputs, 110..240 VAC, electrically isolated, source operation
	.E610	Digital input module, 8 inputs, 24 VDC, electrically isolated, source and sink operation, 8 ms delay

Product Design Assessment (PDA) Certificate for Component Details

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Product/Equipment: Programmable Logic Controller
Model: PCD3

Product description (continued)

	Analogue Module	
PCD3	.W200	Analogue input module, 8 inputs, 10 bits, 0 … 10 V
	.W210	Analogue input module, 8 inputs, 10 bits, 0 … 20 mA
	.W220	Analogue input module, 8 inputs, 10 bits, PT/Ni 1000
	.W300	Analogue input module, 8 inputs, 12 bits, 0 … 10 V
	.W305	Analogue input module, 7 inputs, 12 bits, 0 … 10 V, galvanic isolated
	.W310	Analogue input module, 8 inputs, 12 bits, 0 … 20 mA
	.W315	Analogue input module, 7 inputs, 12 bits, 0(4) … 20 mA, galvanic isolated
	.W325	Analogue input module, 7 inputs, 12 bits, +/- 10 V
	.W340	Analogue input module, 8 inputs, 12 bits, 0 … 10 V, 0 … 2.5 V, 0 … 20 mA, Pt/Ni 1000
	.W350	Analogue input module, 8 inputs, 12 bits, Pt/Ni 100
	.W360	Analogue input module, 8 inputs, 12 bits, Pt 1000 (-50 … 150° C, 0.1° C)
	.W380	Analogue input module, 7 inputs, 12 bits, Pt 1000 (-50 … 150° C, 0.1° C)
	.W400	Analogue output module, 4 outputs, 8 bits, 0 … 10 V
	.W410	Analogue output module, 4 outputs, 8 bits, 0 … 10 V, 0 … 20 mA, 4 … 20 mA
	.W500	Analogue, combined input/output module, 2 inputs and outputs, 12 bits, 0 … 10 V or +/- 10 V
	.W525	Customized multifunctional module, 4 analogue inputs/ 2 analogue outputs
	.W600	Analogue outputs module, 4 outputs, 12 bits, 0 … 10 V
	.W605	Analogue output module with galvanic isolation, 6 outputs, 10 bits, 0 … 10 V
	.W610	Analogue output module, 4 outputs, 12 bits, 0 … 10 V/ +/- 10 V/ 0 … 20 mA
	.W615	Analogue output module with galvanic isolation, 4 outputs, 10 bits, 0(4) … 20 mA
	.W625	Analogue output module with galvanic isolation, 6 outputs, 10 bits, +/- 10 V
	.W720	Weighing module with 2 systems for up to 6 weighing cells, resolution 18 bit
	.W745	Universal temperature measurement module for up to 4 measuring inputs, 16 bits, TC type J & K, Pt100/1000 and Ni 100/1000
	.W800	Analogue manual control module with 3 outputs, 0 … 10 V w/ manual control, 1 output 0 … 10 V w/o manual control

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Product description (continued)

Module	Module related Subcategories	Description
	Motion Module	
PCD3	.H100	Intelligent counting module, 1 counting channel, 20 kHz, 2 inputs
	.H11x	Intelligent fast counting module, 1 counting channel, 100 kHz, 2 inputs, measurement of period, pulse and frequency
	.H150	Absolute encoder module with serial synchronous interface (SSI) module and 4 outputs 24 V DC/ 0.5 A
	.H210	Module for one stepper motor axis
	.H310	Module for 1 servomotor axis, encoder input, 24 V DC/ 100 kHz, set-point output +/- 10 V, 12 bit
	.H311	Module for 1 servomotor axis, encoder input, 5 v DC/ 100 kHz, set-point output +/- 10 V, 12 bit
	Memory Modules and Flash Cards	
PCD3	.R500	Back-up flash card
	.R550M04	4 Mbyte flash card with 3 Mbyte file system
	.R550M128	Flash card style R500 with 128 mbyte
	.R551M04	4 Mbyte flash card with 3 Mbyte file system
	.R560	Flashcard with BACnet®
	.R561	Flashcard with BACnet®
	.R562	Flashcard with BACnet® and 128 Mbyte file System
	.R580	Flashcard with Lon IP
	.R581	Flashcard with Lon IP
	.R582	Flashcard with Lon IP and 128 Mbyte file system
	.R600	Basic module with slot for SD flashcards