

PCD2.M480 FW 1.08.53 Swer

1 Summary of Firmware versions

The under summary presents a short description of all firmware versions which are set on PCD2M480 at the production (official versions and exceptionally some intermediate versions \$).

Concerning corrected / known bugs:

Only important bugs are listed here. For other bugs, please refer to the file SWER_NT.XLS that contains more information about known bugs.

2 Features or restrictions

See in the D2M480_1.08.53.doc file.

3 Modifications realized by SWER number

3.1 Modifications realized for 1.08.53

849 dev Flash PC7.R400 Amic A29800B (Production date \geq Mai 2010)

Able to handel the PCD7R400 equipped with the new FLASH type A29800 from Amic.

553 bug Read FW version with SYSRD

The SYSRD 5210 to read the FW version as a value returns always -1 with the new FW version format (a.bb.cc).

440 bug Direct Periphery acces

Bytes are swapped on direct periphery Word access.

470 bug Comma separator in interpreted text

In an interpreted text (STXT & SF CopyText) a comma "," as well as the dot "." should be possible as decimal separator

3.2 Modifications realized for 1.08.37

426 bug TCPIP Server

On a TCPIP Server port it can happen that a send request is not finished. In Classic TCPIP OpenDataMode (ODM) the Tbsy stays at '1'.

416 bug TCPIP Open Data Mode

If more clients are connected to a slave and some or all clients where disconnected (from the server port) and afterwards the server port will close the PCD can crash.

411 bug Clear Error Flag on FFP Instr.

The error flag is not cleared if a floating point instruction is executed.

409 bug Instruction FDIV

FDIV gives sometimes a divide-by-zero error even if the divisor is not 0.

406 bug S-Bus GWY

If the GWY Master runs in timeout and the timeout is set to a value close to response time (from the GWY master port) then the buffer can be locked and after some time there are no more free buffers to make GWY requests!

401 bug DP/SIO/IO mapping to Register >4095

If Data's from the Profibus-DP, Profi-S-Bus, or IO periphery are mapped to register > 4095 then there are no data copied. Registers < 4095 are working well.

392 bug Profi-S-Bus GWY

If a PCD is connected over a Profi-S-Bus GWY master and the FDL address is changed (without changing the S-Bus address) then it is no more possible to go online to the station without reboot the GWY PCD. SBusShell

373 bug Program blocks > 64k lines

If there is a program block (COB/XOB/FB/PB) bigger than 64k of lines (256k byte data) then the PCD crash when the block is called. Text/DB > 4000 has a maximum size of 64k elements. Text 64kbyte data, DB 64k * 4 byte = 256kbyte date.

372 bug DP/SIO Master

If Input module with an analogue value (ex. PCD3.T760 with a PCD3.W200) is configure and each value is mapped to one register the higher word is not set to 0!

365 bug Profi-S-Bus Slave

If the Profi-S-Bus Slave configuration is deactivated but there is still a Profi-S-Bus configuration (for the Master) then the Slave mode is not closed until the PCD is restarted.

363 dev STXD: stop sending a block is refused during the transmission

If a user program attempts to stop the transmission while a block is sending, the STXD command is refused:

- NEXE flag is set.
- The character is no buffering into the transmit buffer.
- The transmission is not interrupted (the whole block is sent).

350 bug File load of text or DB from S-bug

A single text or DB downloaded from S-Bug with the command File Load *.pcd tExt/Db is not display correctly until a restart command is executed.

359 bug Ether-S-Bus Master

If a STXM/SRXM is call but the Ether-S-Bus Master port is not open (SASI with "EM") then the PCD crash with a "bus error".

357 bug Run after Download Program

If a big program is downloaded over USB and the option to set the PCD in RUN after download is set then it can happen that the PCD stays in STOP after the download.

349 bug Instruction SCONI

If the channel number is in a Register teh SCONI instruction gives an error and does not work.

3.3 Modifications realized for 1.08.21

335 bug R400 Button

If the R400 is pressed on Power on the PCD2.M480 does not always restore the program from the flash and sometimes it does not go in RUN.

3.4 Modifications realized for 1.08.19

328 bug Serial port on PCD2.F5xx

On the serial ports with the PCD2.F5xx modules it can happen that the PCD is blocked.

325 bug Battery Test

The Battery was never tested with the charge on.

323 bug S-Bus XOB 19 start

If the XOB 19 is started over the S-Bus the slave PCD NAK the request if the port is a reduce slave port.

322 bug Interpreter STXM/SRXM with FB Parameter

If a STXM/SRXM with special code (count 0 or DB) is called, and the parameters (count, source or destination) are FB parameters it gives an error.

310 bug DB Backup

If there is no Flashcard on the PCD the diagnostic bit "No Flashcard" is not set.

311 bug FW Download

Sometimes a FW download fails if there is a network with a lot of retries.

306 bug Execute Instruction

If a single instruction is executed the ACCU is not updated in the current program bloc.

301 bug Download in RUN

After a Download in RUN if a restart is made the PCD stays in HALT with a INVALIDE OPCODE because there is a Bloc end instruction without a start bloc (ex. EPB without a PB!).

3.5 Modifications realized for 1.08.14

297 bug Interpreter FB Paramter

Somme IL Instructions with multiple lines and paramter as FB paramter on 2. to 4. line do not work correctly.

294 bug Serial port on PCD2.F5xx

SICL problem with the PCD2.M480 Sicl on the ports 2-5 doesn't work with the PCD2.M480

293 bug Precompiler error

In some cases a download of a memory coniguration gives a "PRECOMPILER ERR" in the history of the PCD. However after a download of the project there is no more precompiler error.

3.6 Modifications realized for 1.08.12

287 bug TCPIP Client

If a port is open as TCPIP client and the connection gives an error it is possible that a wrong port is closed if the close is called. F650driver

273 dev Nbr. of PB and FB

Support up to 2000 FB's and 1000 PB's.

256 dev Hidden program blocs are not supported

With a hidden program bloc the CPU crash, reboot, crash again and so on.

272 bug IP OpenDataMode Client

If there are more than one TCPIP Client and one or more Server are not present and the Clients tries always to connect to the not present Servers then it can happen that the client XCON stays at one even if the socket is closed.

268 bug S-Bus Master (GWY-Master)

In some cases the S-Bus Master STXM/SRXM gives a error even if the TBsy is low.

3.7 Modifications realized for 1.08.08

261 bug Interrupt inputs

If there are too much interrupt puls on the Interrupt Inputs the PCD crash with a bus error.

251 bug Serial S-Bus (parity mode)

If a S-Bus write telegram is sendet and the response is not a ACK/NAK then the PCD crashes.

3.8 Modifications realized for 1.08.05

226 bug Software WatchDog

Enable the Software WatchDog in every SAIA_NT system to supervise if the system still run correctly.

248 bug DP/SIO/Peripheral Transfer functions

IF in the DBX there is a not define transfer function the PCD crash with a bus error.

247 bug STXD freeze and unfreeze

STXD: freeze and unfreeze doesn't work correctly when more than 1 port is used

244 bug Profi-S-Net / Profi-S-Bus

With some Profi-S-Bus network the communication can stop or the PCD can be blocked or made a kernel error.

242 bug PCD Crash if the Profi-S-Bus config change

If a changed Profi-S-Bus configuration change then it can happen that the PCD crash with a Bus error.

227 bug SW WatchDog settings

The SW watchdog does not make an interrupt if there is a cpu crash

217 bug Alarming active or non-ack filter

An active and acked alarm is not displayed, when the active or non-ack filter is selected.

185 dev STXD STXT : Introduce the command to stop and start sending the characterS by user program

Now aday the stream of text/character sending contains the wholes. Some communication type defined by the customer doesn't support these pauses. Therefore a solution is to give a possibility to the user to manage the communication by using a command to start and stop the communication at any time.

165 bug Version number on status page is not displayed

The extended version (1.0X.XX) is not correctly displayed on the status page.

3.9 Modifications realized for 1.06.38

227 bug SW WatchDog settings

The SW watchdog does not make an interrupt if there is a cpu crash

217 bug Alarming active or non-ack filter

An active and acked alarm is not displayed, when the active or non-ack filter is selected.

191 bug Text 8191

The Text 8191 can't access over S-Bus and debugger but with the program.

190 bug Bus Error on STXT(X) on Text >3999 if the text does not exist

On a STXT(X) if the text is bigger than the 3999 and it does not exist then the PCD crashes and made a bus error.

178 dev Status alarming display filter for alarms on/off and with no acknowledgement

All alarms activated once (count > 0) and which are not acknowledged can be displayed only.

177 bug Large PDF file downloads are interrupted on HTTP direct

Downloading of a pdf large file (transfer > 60 seconds) are interrupted by the web server on HTTP direct.

169 bug Interpreter: Index overflow

On PUTX, GETX, TFRX if the media limit overflows (offset + index) the XOB 13 must not call. However XOB 12 will call and if not present the Error flag will be seted.

166 bug Web-server HTTP communication get stuck when a client is unplugged

The communication remains blocked when unplugging a HTTP direct web panel client from network. When replugging the cable the communication continues after some time.

3.10 Modifications realized for 1.06.26

158 bug S-Web trending feature with slow connections fails (GSM, modem)

The connection to a PCD with a S-Web trending application is canceled (NAK). No trending data is display at all.

154 bug After a S-Bus broadcast telegram the TBSY is set to high for ever.

S-Bus broadcast telegram are sent on the network but the TBSY is set to high for ever. This append on Serial-S-Bus as well on Profi-S-Bus and Ether-S-Bus

119 bug Mode C, Interpret Text with \$A

IF a text there is a "\$A0999" when R 999 = 00000000 then 'NUL' should be send but the parsing of the text is stoped.

3.11 Modifications realized for 03B (1.06.16)

111 bug SYSRD 5200 does not return the new FW revision

The SYSRD 5200 must return the new FW revision with the format "a.bb.cc". Attention: now there are more than one register used (for normal version 2 registers).

110 bug FW version is not show correctly on a older PG5 than PG5 1.4 .200
The FW is not show correctly on a "old" PG5 1.4 if the FW name is not "a.bb.cc" (new format).

108 bug WebServer empty page reponse
WebServer responses on all requests with an empty page.

107 bug Program restores if PCD is restart with the "Push Button"
If the PCD is restarted with the "Push Button" then the program will restored from the Flash.

98 development New SF to read the IP Configuration
To change the IP configuration there is the SF "SetLocalIPConfig" but a SF to read the IP configuration is missing.

95 bug Serial S-Bus Secure Data mode

Do not send S-Bus request with the secure data mode but answer to secure request with the secure header.

94 bug S-Bus Master with GWY gives error flag
If there is an S-Bus Master configure on a GWY port then it there are a lot of STXM, SRXM gives an error flag.

93 bug Serial-SBus Data mode stops after Error
After a Protocol error on the Serial-SBus the communication stops and the PCD does no more answer to a telegram.

89 bug A no-coherency time should not be accepted by the PCD
On each time entry (Wtime, Write Clock telegram) a check should be done and only be accepted if it is coherent

86 development Power-on should give a entry in the history list
Each power-on and reboot should give a entry in the history list. Enable the message with SYSWR 9999, K 2. Set default value SYSWR 9999, K 0.

85 development Ether-S-Bus assignation should be accepted without an IP-Nodes table
With the new "sendSBUS" and "recSBUS" SFs using the IP address and not the node ID the IP-Nodes table is no more necessary. Therefore a Ether-S-Bus assignation should be accepted also if the program has no IP_Nodes table in (=> a dummy station with a IP configuration in the PG5 SPM).

80 bug Bios power down, Clear interrupt
The Bios should not stay in a endless loop in the clear interrupt.

76 bug After restart cold the PGU (serial) connection is lost
If the PG5 is connected to the PGU (serial PGU port) after a restart cold the connection is lost. It is no more possible to download a program!

70 bug Profi-S-Bus problem with ESA Terminal
If there is a FDL Bus error on the Profi-S-Net sometimes the Profi-S-Bus does no more communicate or the FW stays in a endless loop and does nothing or crash with a bus error. It happens specialy if there are ESA Terminals on the Profi-S-Bus network.

4 bug Profi-S-IO Master does not reconect slave after a FDL bus error

If there is a bus error on the Profi-S-Bus network it can happen that the Profi-S-IO master does not reconnect the slave.

58 bug S-Bus PGU goes in reduced mode

If there is a modem configure and connected on port 0 of the PCD3 and a restart is made then all other PGU ports (USB, Ether-S-Bus, Profi-S-Bus) goes in reduced mode.

53 bug PCD Classic Interpreter Error PUTX/GETX

On the PUTX/GETX instruction if the Text/DB number (value + index) overflows the value if 8182 then the wrong Text/DB is taken and there is no index overflow. If the number is between 8000 and 8191 the index overflow is called. However the index limit for a Text/DB indexed call must be at 8191!

52 bug PCD Classic Interpreter Error TFRI

A TFRI with a DB/Text > 4000 does not work.

39 bug Serial Port 1 RS-485/RS-422 problem on PCD2.M48x

The Status of the COM Signal on the Port 1 of the PCD2.M48x is reverse!

29 bug Download of a bloc with SBug

The PCD3 FW 037 receives a "Bus Error" if a block is loaded using the Online Debugger (e.g. Command: File Load pcdfile.pcd PB 38). The Bus Error occurs independent whether the PCD is in Run or in Stop.

4 Tools used

- Windriver Workbench 2.6.1
- Compiler Diab V 5.4.0.0