InfoPrint 4247 Firmware Release Notes

4247-X03 SBCS Controller Code - vl 1.09

This is production level SBCS controller code for the model X03.
This file includes code for parallel, serial, USB and Ethernet 10/100 ASCII + IPDS attachments.
Prerequisites: Model X03 printer with SBCS controller card.
Corequisites: None.
Compatibility: This code file is for the following model X03 controllers only.

- 4247-X03 controller features 4350 and 4351 / Card PN 44D8403 / SBCS Parallel ,Serial ,USB
- 4247-X03 controller features 4352 and 4353 / Card PN 44D8406 / SBCS Parallel, Ethernet 10 100 ASCII
- 4247-X03 controller features 4352 and 4353 / Card PN 44D8409 / SBCS Parallel, Ethernet 10 100 IPDS

November 2009 vl 1.09 release notes
This code includes the following changes.

- Fix to correct operation of host override features CPI, LPI, MPI and Paper Source in the configuration menu. When these settings were enabled they were not working in all previous versions.
- Fix to correct a problem with the operation of ASCII Printer Compatibility option Auto CR on LF in the printer configuration. When Auto CR on LF is enabled and the print line is all space characters (ASCII x20) the printer fails to add the CR.
- Decrease pause between printed pages of IPDS text by 0.5 seconds
- Change to firmware download routine to prevent code from being corrupted under certain conditions.
- Change NIC webpage to display new InfoPrint Solutions a Ricoh Company logo.

4247-Z03 SBCS Controller Code - vl 1.09

This is production level SBCS controller code for the model Z03.
This file includes code for parallel, serial, USB and Ethernet 10/100 ASCII + IPDS attachments.
Prerequisites: Model Z03 printer with SBCS controller card.
Corequisites: None.
Compatibility: This code file is for the following model Z03 controllers only.

- 4247-Z03 controller features 5350 and 5351 / Card PN 44D8511 / SBCS Parallel ,Serial ,USB
- 4247-Z03 controller features 5352 and 5353 / Card PN 44D8514 / SBCS Parallel, Ethernet 10 100 ASCII
- 4247-Z03 controller features 5356 and 5357 / Card PN 44D8517 / SBCS Parallel, Ethernet 10 100 IPDS

November 2009 vl 1.09 release notes
This code includes the following changes.

- Fix to correct operation of host override features CPI, LPI, MPI and Paper Source in the configuration menu. When these settings were enabled they were not working in all previous versions.
- Fix to correct a problem with the operation of ASCII Printer Compatibility option Auto CR on LF in the printer configuration. When Auto CR on LF is enabled and the print line is all space characters (ASCII x20) the printer fails to add the CR.
- Decrease pause between printed pages of IPDS text by 0.5 seconds
- Change to firmware download routine to prevent code from being corrupted under certain conditions.
- Change NIC webpage to display new InfoPrint Solutions a Ricoh Company logo.

4247-L03 SBCS Controller Code - vl 1.05

This is production level SBCS controller code for the model L03.
This file includes code for parallel, serial, USB and Ethernet 10/100 attachments.
Prerequisites: Model L03 printer with SBCS controller card.
Corequisites: None.
Compatibility: This code file is for the following model L03 controllers only.

- 4247-L03 controller features 4350 and 4351 / Card PN 41U2227 / SBCS Parallel ,Serial ,USB
- 4247-L03 controller features 4352 and 4353 / Card PN 41U2231 / SBCS Parallel, Ethernet 10 100

December 2008 vl 1.05 release notes
This code release includes the following changes.

- Fix to power on initialization problems when "Quiet Mode" is enabled in the printer configuration.
- Fix to static IP subnet mask error. Printer can not be reached from a workstation or host on a remote subnet when printer is configured for Fixed IP addressing.
- Fix to possible power on initialization completion problems when connected to some network switches. CISCO network switches 4006, 2960, and 3560 are known to cause this issue.
- Fix to Class B IP address broadcast error. The IP broadcast is improperly sent out Class A.

4247-L03 DBCS Controller Code - vl 5.05
This is production level DBCS controller code for the model L03.
This file includes code for parallel, serial, USB and Ethernet 10/100 attachments.
Prerequisites: Model L03 printer with DBCS controller card.
Corequisites: None.
Compatibility: This code file is for the following model L03 controllers only.
- 4247-L03 controller features 4360 and 4361 / Card PN 41U2236 / DBCS Parallel ,Serial ,USB
- 4247-L03 controller features 4362 and 4363 / Card PN 41U2237 / DBCS Parallel, Ethernet 10 100

December 2008 vl 5.05 release notes
This code release includes the following changes.
- Fix to power on initialization problems when "Quiet Mode" is enabled in the printer configuration.
- Fix to static IP subnet mask error. Printer can not be reached from a workstation or host on a remote subnet when printer is configured for Fixed IP addressing.
- Fix to possible power on initialization completion problems when connected to some network switches. CISCO network switches 4006, 2960, and 3560 are known to cause this problem.
- Fix to Class B IP address broadcast error. The IP broadcast is improperly sent out Class A.

Firmware for early models (withdrawn from market) below this line.

4247-003 Base Code - **vl 7.07**
This is the final production level base code for the model 003.
This file includes code for parallel, serial, coax scs, coax ipds , twinax scs , and twinax ipds attachments.
LAN (NIC) code is not part of this download package. Download and install NIC code if any one of the
following LAN card part numbers are present: 75P1310, 75P0558, 75P1311, 75P0557, 41U2253, 41U2256, 41U2254, or 41U2257.
Prerequisites: Model 003 printer with base code vl 6.05 or higher. If the installed version is lower then you will need to download 4247-003 base code vl 6.05 from this page and install it first .
Corequisites: If a LAN card is present then NIC Code vl 3.08 should also be installed.
Compatibility: For model 003 printers only.

4247-003 PTF Base Code - vl 8.02
This is PTF level base code for the model 003.
This file includes code for parallel, serial, coax scs, coax ipds, twinax scs , and twinax ipds attachments.
LAN (NIC) code is not part of this download package.
Download and install NIC code if any one of the following LAN card part numbers is present: 75P1310, 75P0558, 75P1311, 75P0557, 41U2253, 41U2256, 41U2254, or 41U2257.
Prerequisites: Model 003 printer with base code vl 6.05 or higher. If the installed version is lower then download 4247-003 base code vl 6.05 from this page and install it first .
Corequisites: If a LAN card is present then 'NIC PTF code vl 4.00 should also be installed.
Compatibility: For model 003 printers only.

Release notes: This PTF base code for the model 003 includes the following fixes and changes.
- Fix for Ethernet IPDS (port 5100) AS400 communication issues.
  Problem: IPDS Ethernet attached printer intermittently stops or hangs and ends the AS400 writer or halts the writer in a pending state. The printer op panel can sometimes be hung. The condition is only recovered by powering. Printer off/on, restarting the AS400 Writer, and restarting the job. ** Requires installation of NIC PTF code vl 4.00 **
- Fix for Ethernet IPDS (port 5100) connection issues.
  Problem: Intermittent AS400 Writer 'pending' problem. Printer appears ready online, can be pinged, and op panel responds to key presses. AS400 Writer has queued output ready to print but is hung in a pending (printer response) state. Failure is recovered from by ending Writer, varying printer off then on, and restarting the Writer. The failure is a manifestation of the printer socket being opened/closed for each job. Changing the 'Release Timer' setting to *NOMAX usually eliminates the problem when the printer is not being shared by multiple host sessions. ** The fix also requires the installation of NIC PTF code vl 4.00 **
- Fix for Ethernet ASCII (port 9100) connection issues.
  Problem: In 9100 direct print mode 4247 disconnects TCP/IP session when the host computer does not send data for more than 15 sec. The printer NIC disconnects due to data starvation time-out of 15 sec. In this level of code the NIC data starvation timer is disabled. ** The fix also requires the installation of NIC PTF code vl 4.00 **
- Fix for extra blank page in long jobs over Twinax SCS attachment interface.
  Problem: Intermittently and on very long jobs (100+ pages) an extra Form Feed is erroneously inserted into the printout, this results in a blank page. After that printing continues with correct alignment.
- Fix for REAR PULL tractor feed problem.

Problem: When forms are loaded on the REAR PULL tractor, and the printer is powered off then back on, the REAR PULL tractors do not engage with platen drive gear and the form will not move.
- Fix for bad encoding of IPDS 128 barcode when switching barcode modes.
  Problem: Bad encoding occurs after switching to Code Subset C from B. Printer stays in Code C after a command to switch next mode is received.
- Add support for 4247 Remote Printer Management Utility software. ** Requires installation of NIC PTF code vl 4.00 **

4247-003 Base Code - vl 6.05
This is base code vl 6.05 for the model 003. On a printer with code below vl 6.05, you must install this code first, before it can be upgraded to a higher level.

4247-V03 Base Code - vl 2.07
This was the final production level base code for the model V03.
This file includes code for parallel , serial, coax scs, coax ipds , twinax scs , and twinax ipds attachments.
LAN (NIC) code is not part of this download package.
Download and install NIC code from this page if any one of the following LAN card part numbers are present: 75P1310, 75P0558, 75P1311,75P0557, 41U2253, 41U2256, 41U2254, or 41U2257.
Prerequisites: Model V03 printer.
Corequisites: If a LAN card is present then NIC Code vl 3.08 should also be installed.
 Compatibility: For model V03 printers only.

4247-V03 PTF Code - vl 3.02
This is PTF level base code for the model V03.
This file includes code for parallel , serial, coax scs, coax ipds , twinax scs , and twinax ipds attachments.
LAN (NIC) code is not part of this download package.
Download and install NIC code from this page if any one of the following LAN card part numbers is present:
75P1310, 75P0558, 75P1311, 75P0557, 41U2253, 41U2256, 41U2254, or 41U2257.
Prerequisites: Model V03 printer.
Corequisites: If a LAN card is present then 'NIC PTF code vale 4.00 should also be installed.
Compatibility: For model V03 printers only.

Release notes: This PTF base code for the model V03 includes the following fixes and changes.
- Fix for Ethernet IPDS (port 5100) AS400 communication issues.
  Problem: IPDS Ethernet attached printer intermittently stops or hangs and ends the AS400 writer or halts the writer in a pending state. The printer op panel can sometimes be hung. The condition is only recovered by powering printer off/on, restarting the AS400 Writer, and restarting the job.
  ** Requires the installation of NIC PTF code vl 4.00 **
- Fix for Ethernet IPDS (port 5100) connection issues.
  Problem: Intermittent AS400 Writer 'pending' problem. Printer appears ready online, can be pinged, and op panel responds to key presses. AS400 Writer has queued output ready to print but is hung in a pending (printer response) state. Failure is recovered from by ending Writer, varying printer off then on, and restarting the Writer. The failure is a manifestation of the printer socket being opened/closed for each job. Changing the 'Release Timer' setting to
  *NOMAX usually eliminates the problem when the printer is not being shared by multiple host sessions.
   ** Requires the installation of NIC PTF code vl 4.00 **
- Fix for Ethernet ASCII (port 9100) connection issues.
  Problem: In 9100 direct print mode 4247 disconnects TCP/IP session when the host computer does not send data for more than 15 sec. The printer NIC disconnects due to data starvation time-out of 15 sec. In this level of code the NIC data starvation timer is disabled.   ** Requires the installation of NIC PTF code vl 4.00 **
- Fix for extra blank page in long jobs over Twinax SCS attachment interface.
  Problem: Intermittently and on very long jobs (100+ pages) an extra Form Feed is erroneously inserted into the printout which results in a blank page? After that printing continues with correct alignment.
- Fix for 8 lpi line spacing error on jobs printed over any attachment interface.
  Problem: The problem occurs with 8 LPI and an odd number page length which is not very common. Print lines can be observed moving upwards, page to page, by a small amount. The paper step motor is based on 1/180" and needs 22.5 motor steps to perform a paper movement of 1/8". The code manages this by performing an approximation. Due to a firmware approximation error the move distance was slightly off. The problem can occur when LPI and Page Length is selected through the printer Op Panel or by software commands. The problem doesn't occur at 6 LPI.
- Fix for bad encoding of IPDS 128 barcode when switching barcode modes.
  Problem: Bad encoding occurs after switching to Code Subset C from B. Printer stays in Code C after a command to switch to the next mode is received.
- Fix for intermittent forms load from both tractors simultaneously.
  Problem: The problem usually occurs after the forms loaded in the front (top) tractor have been parked, and forms on the

Rear (bottom) tractor is loaded under datastream control.   Forms from both tractors load at the same time.
- Adds support for 4247 Remote Printer Management Utility software VL 2.7 and higher. ** Requires installation of NIC PTF code vl 4.00 **

4247-003/V03 NIC Code - vl 3.08
This is the final production level NIC code for the model 003 and V03 printers.
Prerequisites: Download and install this code for any of the following LAN card part numbers:
75P1310, 75P0558, 75P1311, 75P0557, 41U2253, 41U2256, 41U2254, or 41U2257.
Corequisites: Model 003 production level base code VL 7.07. Model V03 production level base code VL 2.07.
Compatibility: For model 003 printers with base code VL 7.07 installed and model V03 printers with base code VL 2.07 installed.

4247-003/V03 PTF NIC Code - vl 4.00
This is PTF NIC code for the model 003 and V03 printers.
Prerequisites: Download and install this code for any of the following LAN card part numbers:
75P1310, 75P0558, 75P1311, 75P0557, 41U2253 , 41U2256, 41U2254, or 41U2257.
Corequisites: Model 003 PTF base code VL 3.02.   Model V03 PTF base code VL 8.02.
Compatibility: For model 003 printers with PTF base code VL 3.02 installed and model V03 printers with PTF base code VL 8.02 installed.
This PTF NIC code includes the following fixes and changes.
- Fix for Ethernet IPDS (port 5100) AS400 communication issues.
  Problem: IPDS Ethernet attached printer intermittently stops or hangs and ends the AS400 writer or halts the writer in a pending state.   The printer op panel can sometimes be hung. The condition is only recovered by powering printer off/on, restarting the AS400 Writer, and restarting the job . * The fix also requires the installation of NIC PTF code vl 4.00 **
- Fix for Ethernet IPDS (port 5100) connection issues.
  Problem: Intermittent AS400 Writer 'pending' problem. Printer appears ready online, can be pinged, and op panel responds to key presses.   AS400 Writer has queued output ready to print but is hung in a pending (printer response) state. Failure is recovered from by ending Writer, varying printer off then on, and restarting the Writer. The failure is a manifestation of the printer socket being opened/closed for each job. Changing the 'Release Timer' setting to *NOMAX usually eliminates the problem when the printer is not being shared by multiple host sessions.
- Fix for Ethernet ASCII (port 9100) connection issues.
  Problem: In 9100 direct print mode 4247 disconnects TCP/IP session when the host computer does not send data for more than 15 sec.   The printer NIC disconnects due to data starvation time-out of 15 sec.   In this level of code the NIC data starvation timer is disabled.
- Adds support for 4247 Remote Printer Management Utility software.