

=====  
\*\*\* Basic Information \*\*\*  
=====

[Create date] 2019/11/14

-----  
[Program Name] Network Support

-----  
[Version] 12.73

-----  
[PCB No.]

-----  
[Interchangeability] X / O

-----  
[Other Firmware Requirements] None

-----  
[PCB Requirements] None

-----  
[Software category] Normal Release

-----  
[Release category] Normal Release

-----  
[Program category] Firmware

-----  
Exported to(language) GEN(all)

[Firmware No.] D1365769M

[File Information]

File Name       D1365769M.fwu

File Type       Module for Service

Size            10.13 MB ( 10618156 byte )

[File Information]

File Name       D1365769M.rfu

File Type       Module for Remote Upgrade

Size            10.13 MB ( 10625280 byte )

[Availability of RFU] No

-----  
[Production reflection] 2019/12  
-----

=====  
\*\*\* Note \*\*\*  
=====

[Note]

=====  
\*\*\* Important Notes \*\*\*  
=====

[Important Notes]

=====  
\*\*\* Modification History \*\*\*  
=====

=====  
[Modifications made:]

Rank C

Symptom corrected:

- A vulnerability (CVE-2019-1559) to a Padding Oracle Attack on CBC encryption has been fixed.
- To activate this fix, CBC mode must be disabled after updating the firmware.
- msh> set cbc down
- msh> logout
- Enter "yes" to save the changes.

-----  
[Modification history]

-----  
Version 12.71

Rank C

Symptom corrected:

- When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active", authentication will fail.
- When the device is in Energy Saver Mode, if information about the network interface for the device is being obtained from the SNMP Manager application, nonexistent errors are recorded in the system logs.
- SMB client timeout configuration is not correctly applied in the device.
- SC899 occurs when conducting Scan to Folder, and the device might automatically restart.
- When conducting Scan to Folder, if a host name is resolved to multiple IP addresses by NBNS, the device tries to connect to only the first resolved IP address.
- When a HP device is working on the same subnet, Scan to Folder will fail.
- Network browsing sometimes fails when conducting Scan to Folder.
- SC819 might occur after updating firmware remotely.
- If the device has not been used a significant amount of times, functions that require a network connection might fail.
- The device might freeze during data transmission when conducting Scan to Folder with SMBv2/v3.
- When conducting Scan to Folder in a high-load network environment, the device's status gets stuck on sending and the scanner becomes unusable.
- When conducting Scan to Folder using SMBv2/v3, if the device receives UDP communication from the outside to the port used by SMBv2/v3, Scan to Folder might fail.

-----  
Version 12.70

Symptom corrected:

- On a device with SMBv2/v3 firmware, when sending a scanned or fax document using the Hotfolder plug-in for GlobalScan or StreamlineNX, an "incorrect" document may be sent to the destination and may be lost the original document.

-----  
Version 12.69.1

Other changes:

- Newly added SMBv2/v3 support.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

System/Copy v1.18 (D1365760T)

Network Support v12.69.1 (D1365769J)

Web Support v1.18 (D1365765K)

Scanner v01.08 (D1365764H)

OpePanel

\* Europe, China, and Taiwan model: v1.12 (D1365790K)

\* North America, Asia and Korea model: v1.05 (D1365787D)

Please refer to the RTB(No.RGene095) for details.

---

#### Version 12.68

Symptom corrected:

1. When performing IPP printing with the job spool enabled in Mac OS X 10.7 or later and iOS 6 or later, the document is not printed.
2. Changed the DH key specification to use 2,048 bits instead of 512 bits to prevent the Logjam vulnerability (CVE-2015-4000). In addition, by modifying this specification, SSL/TLS communication can be established when using Mac OS X 10.10.4 and iOS 8.4.

---

#### Version 12.67

Symptom corrected:

1. When the device is in Energy Saver Mode, if information about the network interface for the device is being obtained from the SNMP Manager application, nonexistent errors are recorded in the system logs.
2. When the display language of the operation panel is set to Catalan, Scan to Folder fails.

---

#### Version 12.66

Symptom corrected:

1. When running the port scan tool via the IPP port (TCP 631), an SC899 error might occur.
2. When the device repeatedly goes in and out of Energy Saver Mode while the web browser is running on the operation panel, an SC899 error might occur.

Other changes:

- When printing from the Windows operating system, if the RAW protocol is used for the standard TCP/IP port, a significant amount of time might pass until the next job is printed. Because of this, the initial print timeout period is changed to 15 seconds and the shortest timeout period that can be set is changed to 5 seconds.

This firmware is dependent on RemoteFax firmware v05.00.00 (D1365763E) or later, so please be sure to update it.

## Version 12.65.1

### Symptom corrected:

1. When resuming from an Energy Saver mode, functions that use HTTP, including Web Image Monitor, might not be usable and the device might not be operable.
2. When SP5-985-001 is set to "0" (disabled) and SP5-985-002 is set to "1" (enabled), an SC997 error might occur if repeatedly switching between the home screen and the system settings screen.

### Other changes:

- Support for AirPrint.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

- Printer firmware: v1.06 or later (D1365772F)
- Web Support firmware: v1.15.1 or later (D1365765G)
- PDF firmware: v1.04 or later (D1365778C)
- RemoteFax firmware: v05.00.00 or later (D1365763E)

This feature is not available in the Pro C5100S/C5110S.

## Version 12.64

### Specification Change:

1. Supports the IPv6 and DNS communications at @Remote.

Note: It requires to update the firmware version together with System/Copy (Ver 1.09) as a set.

### Symptom corrected:

1. If an error occurs during DSM scanner transmission and the job is cancelled, and then the DSM scanner is reinitiated, a page might be missing from the result of the scanned document.

## Version 12.63.6

### Symptom corrected:

1. When importing the device settings information, if the host name is set by default, an error message might appear, stating that some of the settings were not imported.
2. The "148 x 200 mm" (Japanese double postcard) option might not appear in the paper size options on the AirPrint printing screen.
3. The following information might be incorrect in the AirPrint feature:
  - Black-and-white models or color models
  - Whether it is possible to conduct duplex printing
  - Paper size, large capacity tray, and output trayThe device might not be able to print the specified "Plain Paper" when using the AirPrint function.
4. When turning on the device's main power or resuming from an Energy Saver mode, error SC899 might occur.  
Even if only Network Support is updated, there is a possibility that the Printer, Scanner, and/or Network DocBox firmwares might cause error SC899 to occur.  
Therefore, the following firmware should also be updated:
  - Printer firmware: v1.04 or later

- Scanner firmware: v1.04 or later
  - Network DocBox firmware: v1.02 or later
5. When DHCP v6 is enabled, turning the power off and then on might cause a memory leak.
  6. When simultaneously printing from AppleTalk on a Mac and a protocol other than AppleTalk in Windows, an SC899 error might occur.
  7. When PEAP or TTLS is used as the IEEE 802.1X authentication method and the server certification check is disabled, the IP address might not be obtained after the device is restarted.

-----  
Version 12.63.3

Symptom corrected:

@Remote communication may fail.

Note: To apply this change, make sure to update to System/Copy  
(Ver 1.06) or later.

-----  
Version 12.63.2

1st Mass production

=====  
**\*\*\* Basic Information \*\*\***  
=====

[Create date] 2019/11/14

-----  
[Program Name] Network Support

-----  
[Version] 12.73

-----  
[PCB No.]

-----  
[Interchangeability] X / O

-----  
[Other Firmware Requirements] None

-----  
[PCB Requirements] None

-----  
[Software category] Normal Release

-----  
[Release category] Normal Release

-----  
[Program category] Firmware

-----  
Exported to(language) GEN(all)

[Firmware No.] D1365769M

[File Information]

File Name        D1365769M.fwu

File Type        Module for Service

Size             10.13 MB ( 10618156 byte )

[File Information]

File Name        D1365769M.rfu

File Type        Module for Remote Upgrade

Size             10.13 MB ( 10625280 byte )

[Availability of RFU] No

-----  
[Production reflection] 2019/12

=====  
**\*\*\* Note \*\*\***  
=====

[Note]

=====  
**\*\*\* Important Notes \*\*\***  
=====

[Important Notes]

=====  
**\*\*\* Modification History \*\*\***  
=====

=====  
[Modifications made:]

Rank C

Symptom corrected:

- A vulnerability (CVE-2019-1559) to a Padding Oracle Attack on CBC encryption has been fixed.
- To activate this fix, CBC mode must be disabled after updating the firmware.
- msh> set cbc down
- msh> logout
- Enter "yes" to save the changes.

-----  
[Modification history]

-----  
Version 12.71

Rank C

Symptom corrected:

- When the device is set to use "IEEE 802.1X" and "TLS1.2" is set to "active", authentication will fail.
- When the device is in Energy Saver Mode, if information about the network interface for the device is being obtained from the SNMP Manager application, nonexistent errors are recorded in the system logs.
- SMB client timeout configuration is not correctly applied in the device.
- SC899 occurs when conducting Scan to Folder, and the device might automatically restart.
- When conducting Scan to Folder, if a host name is resolved to multiple IP addresses by NBNS, the device tries to connect to only the first resolved IP address.
- When a HP device is working on the same subnet, Scan to Folder will fail.
- Network browsing sometimes fails when conducting Scan to Folder.
- SC819 might occur after updating firmware remotely.
- If the device has not been used a significant amount of times, functions that require a network connection might fail.
- The device might freeze during data transmission when conducting Scan to Folder with SMBv2/v3.
- When conducting Scan to Folder in a high-load network environment, the device's status gets stuck on sending and the scanner becomes unusable.
- When conducting Scan to Folder using SMBv2/v3, if the device receives UDP communication from the outside to the port used by SMBv2/v3, Scan to Folder might fail.

-----  
Version 12.70

Symptom corrected:

- On a device with SMBv2/v3 firmware, when sending a scanned or fax document using the Hotfolder plug-in for GlobalScan or StreamlineNX, an "incorrect" document may be sent to the destination and may be lost the original document.

-----  
Version 12.69.1

Other changes:

- Newly added SMBv2/v3 support.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

System/Copy v1.18 (D1365760T)

Network Support v12.69.1 (D1365769J)

Web Support v1.18 (D1365765K)

Scanner v01.08 (D1365764H)

OpePanel

\* Europe, China, and Taiwan model: v1.12 (D1365790K)

\* North America, Asia and Korea model: v1.05 (D1365787D)

Please refer to the RTB(No.RGene095) for details.

---

#### Version 12.68

Symptom corrected:

1. When performing IPP printing with the job spool enabled in Mac OS X 10.7 or later and iOS 6 or later, the document is not printed.
2. Changed the DH key specification to use 2,048 bits instead of 512 bits to prevent the Logjam vulnerability (CVE-2015-4000). In addition, by modifying this specification, SSL/TLS communication can be established when using Mac OS X 10.10.4 and iOS 8.4.

---

#### Version 12.67

Symptom corrected:

1. When the device is in Energy Saver Mode, if information about the network interface for the device is being obtained from the SNMP Manager application, nonexistent errors are recorded in the system logs.
2. When the display language of the operation panel is set to Catalan, Scan to Folder fails.

---

#### Version 12.66

Symptom corrected:

1. When running the port scan tool via the IPP port (TCP 631), an SC899 error might occur.
2. When the device repeatedly goes in and out of Energy Saver Mode while the web browser is running on the operation panel, an SC899 error might occur.

Other changes:

- When printing from the Windows operating system, if the RAW protocol is used for the standard TCP/IP port, a significant amount of time might pass until the next job is printed. Because of this, the initial print timeout period is changed to 15 seconds and the shortest timeout period that can be set is changed to 5 seconds.

This firmware is dependent on RemoteFax firmware v05.00.00 (D1365763E) or later, so please be sure to update it.



## Version 12.65.1

### Symptom corrected:

1. When resuming from an Energy Saver mode, functions that use HTTP, including Web Image Monitor, might not be usable and the device might not be operable.
2. When SP5-985-001 is set to "0" (disabled) and SP5-985-002 is set to "1" (enabled), an SC997 error might occur if repeatedly switching between the home screen and the system settings screen.

### Other changes:

- Support for AirPrint.

This firmware is dependent on the following firmware modules.

Please be sure to update all of them:

- Printer firmware: v1.06 or later (D1365772F)
- Web Support firmware: v1.15.1 or later (D1365765G)
- PDF firmware: v1.04 or later (D1365778C)
- RemoteFax firmware: v05.00.00 or later (D1365763E)

This feature is not available in the Pro C5100S/C5110S.

## Version 12.64

### Specification Change:

1. Supports the IPv6 and DNS communications at @Remote.

Note: It requires to update the firmware version together with System/Copy (Ver 1.09) as a set.

### Symptom corrected:

1. If an error occurs during DSM scanner transmission and the job is cancelled, and then the DSM scanner is reinitiated, a page might be missing from the result of the scanned document.

## Version 12.63.6

### Symptom corrected:

1. When importing the device settings information, if the host name is set by default, an error message might appear, stating that some of the settings were not imported.
2. The "148 x 200 mm" (Japanese double postcard) option might not appear in the paper size options on the AirPrint printing screen.
3. The following information might be incorrect in the AirPrint feature:
  - Black-and-white models or color models
  - Whether it is possible to conduct duplex printing
  - Paper size, large capacity tray, and output trayThe device might not be able to print the specified "Plain Paper" when using the AirPrint function.
4. When turning on the device's main power or resuming from an Energy Saver mode, error SC899 might occur. Even if only Network Support is updated, there is a possibility that the Printer, Scanner, and/or Network DocBox firmwares might cause error SC899 to occur. Therefore, the following firmware should also be updated:
  - Printer firmware: v1.04 or later

- Scanner firmware: v1.04 or later
  - Network DocBox firmware: v1.02 or later
5. When DHCP v6 is enabled, turning the power off and then on might cause a memory leak.
  6. When simultaneously printing from AppleTalk on a Mac and a protocol other than AppleTalk in Windows, an SC899 error might occur.
  7. When PEAP or TTLS is used as the IEEE 802.1X authentication method and the server certification check is disabled, the IP address might not be obtained after the device is restarted.

-----  
Version 12.63.3

Symptom corrected:

@Remote communication may fail.

Note: To apply this change, make sure to update to System/Copy  
(Ver 1.06) or later.

-----  
Version 12.63.2

1st Mass production