



**iChip / iChip LAN / iChip Plus  
CO561AD-x & CO661AL-x**

**Ver. 704P16**

**Release Notes**

*May 2005*

**Previous Version: 704P04**

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# **Current Version Ixx704P16**

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## New Features for Ver. 704P16

### PPP Header Compression

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*		*	*		*

A new parameter, PPP, shall govern iChip's policy when negotiating PPP header compression. When PPP is set to 1 (AT+iPPP=1), iChip will request ACFC (Address Control Field Compression) and agree to a peer's request to use ACFC. When PPP is set to 0, iChip will not request the peer to use ACFC. However, iChip will still agree to a peer's request to use ACFC.

### SerialNET Indicator Signal (CO661 only)

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
				*	*	*

A new signal has been assigned to a reserved CO661 hardware pin. Z0 (Pin 14) is now configured as a GPIO OUTPUT and used as a SerialNET indicator. It is normally HIGH when NOT in SerialNET mode and set LOW when in SerialNET mode.

### Email

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*	*	*	*	*	*

When connecting to the SMTP server, iChip will use the value of the RRRL parameter (if it is not empty), as the sender IP address parameter in the SMTP HELO record. Previously, iChip used the SMTP's own address for this parameter. The new feature was added to support SMTP servers that did not allow the self-IP address.

# Bug Corrections for Ver. 704P16

## Sockets

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*	*	*	*	*	*

1. Previously, when a socket was closed (AT+iSCLS), while data still resided in the socket's buffer – iChip would crash. This has been corrected. Now it is safe to close a socket even when data still exists in its buffers.

## CHAP

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*		*	*		*

1. Previously, starting with major version 702 iChip had an error in its CHAP negotiation procedure. iChip erroneously sent the Username as if it were the password. This caused CHAP sessions to fail. This has now been corrected.

## Parameter Change Indication

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*	*	*	*	*	*

1. Previously, no indication was given to the host when a WEB parameter was changed as a result of uploading an .RPF file. This has been corrected. Now when a parameter is changed by an .RPF file, iChip shall assert its ~DTRH signal and set bit 10 in the response word to AT+iRP7 (new data available report).

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*		*	*		*

2. Previously, the very first time that a data receive event occurred, following a software or hardware reset, iChip failed to assert the ~DTRH signal as required. This has been corrected. Now ~DTRH is properly asserted.

## WEB Server

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*	*	*	*	*	*

1. Previously, iChip's WEB server served WAP script files as if they were regular WAP files. This may have caused an "Unknown File Format" error message in the WAP browser. Now, WAP script files are correctly labeled in the HTTP header, eliminating this problem.

## SerialNET

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*	*	*	*	*	*

1. Previously, if the remote server's address (HSRV) could not be resolved after once being connected, iChip kept trying to reach it using the IP it resolved the first time. This made it impossible to reach the server if it used a dynamic IP address scheme that changed over time. Now after failing to reach the HSRV, iChip will always use the DNS server again, when attempting to resolve the current IP.

## Email

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*	*	*	*	*	*

1. Previously, iChip may have returned an I/ONLINE or I/DONE reply following the AT+iE\* command even though it the mail was not sent correctly (for example when the remote socket was closed before all the email data was ACK'ed by the SMTP server at the TCP level). This has now been corrected.
2. Previously, when an incoming email contained a binary character 0xff (which can happen if the email was encoded using an 8bit encoding), iChip rejected the email and returned an error code (079). Now iChip will accept 0xff without error, thus allowing binary-encoded Email messages.

## Modem Interface

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*		*	*		*

1. The WAVECOM FASTRACK modem (MTYP=9) disconnection handling process was updated to fit newer software versions.

## General Interface

Applicable to :	CO561AD			CO661AL		
	S	L	D	S	L	D
	*	*	*			

1. Previously, in rare cases that were characterized by intense data flow on the host serial communication channel, iChip may have lost a data byte. This has now been corrected.