The firmware of an AC10 IP66 0.4kW~15kW (frame 1~3) can be updated using the process described here. These can be identified by the Model Number.

Par	ker	Parker Hanni	ifin Cor	poration
MODEL		16G-11-0045	-BF	Mark Statistics
INPUT	1 PH	AC 230 V	10 A	50/60 Hz
	3 PH	0~INPUT V	4.5A	0.75KW
OUTPUT		0~590 H	łz	COLUMN TO A COLUMNT TO A COLUMNTA A COLUMNT TO A COLUMNT TO A COLUMNT TO A COLUMNTA A COLUMN
1P66	2	16G11004516713 SW NO. 1.13	000015	Made in China

16G-X1-XXXX-XX
16G-X2-XXXX-XX
16G-X3-XXX-XX

For example, is an IP2 AC10 Frame 6 so can be updated using this method.

Note – if the firmware already installed has version 1.0XX (e.g. 1.04 or 1.044), then it cannot be upgraded. The firmware version can be checked by examining F105 on the keypad. This may also be seen on the label.



The firmware of an AC10 IP66 18.5kW~90kW (frame 4~6) cannot currently be updated using this process. It can be updated using an emulator but should only be done at the factory. This situation will change in the future. The models affected are:

16G-X4-XXXX-XX
16G-X5-XXXX-XX
16G-X6-XXX-XX

Required Tools:

- 1) Programming software (Windows)
- 2) RS485 4-wire Converter
- 3) Programming Cable
- 4) Jumper for J8 link (bent paper-clip will do)
- 5) 5V power supply (3 x AA battery will do)

The Flash Programmer for TI MPUs can be downloaded from: <u>http://www.codeskin.com/c2prog-download</u>

The latest firmware version can be downloaded from: http://www.parker.com

The firmware version will be 3.xx (e.g. 3.27). <u>Do not</u> attempt to program using other versions 2.xx or 4.xx as these are intended for different products.

Any RS485 converter can be used as long as it supports 4-wire mode. A good example is the Moxa Uport1130 RS-422/485 USB-to-Serial Adaptor.

The Programming Cable is an RJ45 (Ethernet standard) connected as follows:



the same cable connected to a Moxa converter:



The Process

Important Notes Before Continuing with Firmware Update

- 1. Check the values of F103 (kW rating of Drive) and F104 (Phase and Voltage rating of the Drive). These values need to be re-entered after the firmware update. On a system fitted Drive the label with this information is not always visible.
- 2. Do you need to save the existing Configuration installed in the Drive? The firmware update will set the values in the Drive back to default. The installed configuration can be extracted with DSE Lite before commencing with the update. Once you have started updating you cannot restore the configuration without a saved DSE Lite parameter extraction.









5V can be supplied by USB using the 1002-00-00 CLONE MODULE



Running the CodeSkin C2Prog upgrade utility:

\mu CodeSkin	
C2Prog	
C2Prog.exe	
🗾 Manual	45

C2Prog v1.7	by codeskin.com
File:	
C:\Users\kjJ\Documents\AC10G3NZS327.hex	Select File
Programming Configuration	*
Target: 28069,67,66	
Code Security:	
Key 1: **** Key 2: **** Key 3: ****	Key 4: ****
Key 5: **** Key 6: **** Key 7: ****	Key 8: ****
Flash Sectors to be Erased: A B C D E F G H I J K L M N O P	
Smart Sector Selection 🔲 Allow OTP Programming	
Append Checksum	
Baudrate: TA: SA:	SID:
	Create ehx
Port:	
Serial CAN JTAG USB Con	figure Ports
COM35	Program

Select File: file containing firmware to program into AC10 IP20 6~12 Target: 208069,67,66 Options: SCI Port: Serial

Configure Ports.. as below

rity:		
*	Port Configuration	
*	Serial port:	: [*
ors	COM35 Scan Ports	Ľ
D	CAN port:	U
	•	
Sec	JTAG port:	
dC	-	H
	USB port:	-
	OK Cancel	reat
		Pear

Serial port: Scan Ports and select COM port which is the USB-RS485 converter.

After clicking on Program there may be at least 30 seconds before the *** PLEASE RESET TARGET IN SCI BOOT-LOADER MODE *** message to appear, please wait.

C:\Users\k_1211 \Documents\AC10G3NZS327.hex	x
Programming	Close
*** PLEASE RESET TARGET IN SCI BOOT-LOADER MODE *** Connecting with target (autobaud) OK. Bootloading OK. Please wait Connecting with target -Chip ID: 0x8F -Chip Rev: 0x01 OK. Unlocking target OK. Loading OK. Connecting with target -Flash API version: 100 OK. Erasing flash [ABCDEFGH] OK. Programming OK. You may now close this window and reset the target.	*
ОК	

Note - if Unlocking target... FAILS then unlocking keys will need to be entered. These are

Programn	ning Conf	iguration					*
Target:	28069,67,6	6 •	 Optic 	ons: SCI	•		
Code Secu	urity:						
Key 1:	****	Key 2:	****	Key 3:	****	Key 4:	****
Key 5:	****	Key 6:	****	Key 7:	****	Key 8:	****

Key 1:1976Key 2:1208Key 3:1999Key 4:0716Key 5:0716Key 6:1999Key 7:1208Key 8:1976

After entering the keys, click on Program again.