# GlobalMed<sup>®</sup> ClinicalAccess<sup>®</sup> Station PDB Update

Use these instructions to install the latest Power Distribution Board (PDB) software and firmware. The installer works on machines with either Windows<sup>®</sup> 7 or 10.

### Questions? Contact GlobalMed Support:

1-800-886-3692, option 2 help@globalmed.com

NOTE: CAS carts shipped with a DELL 7050 PC may pop up a notice the PC is being throttled back to 800Mhz. If you receive this notification, please contact GlobalMed support for a custom BIOS update.

# **Installer Instructions**

- 1. Go to https://www.globalmed.com/support/downloads/.
- 2. Under ClinicalAccess® Station download the installer titled CASPDB Installer v.2.0.17.0.
- 3. Once downloaded, move the installer to the desired location on your machine.
- 4. Uninstall any older versions you may have:
  - a. Open the Control Panel.
  - b. Navigate to the Programs and Features screen.
  - c. Right click on the program titled CasPdbCom and click Uninstall (see Figure 1).

#### Figure 1 Uninstall older verions

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🕒 🕞 🗢 🕅 🕨 Control Panel 🛛	Programs      Programs and Features		-	♦ Search P	rograms and Fea	tures	Q
Control Panel Home	Uninstall or change a program						
View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.					
😵 Turn Windows features on or							
off	Organize - Uninstall Repair					80 -	0
Install a program from the	Name	Publisher	Installed On	Size	Version		
network	Feite	Tage De deu	11/14/2016	4.75.540	16.04		
	7 Zin 18.05 (x64 adition)	Igor Paviov	9/21/2010	4.73 MB	18.05.00.0		
	Ref. Vistual Office	9-8 I	7/16/2018	3.09 MD	E 4 0 10820		
	Adobe Acrobat Reader DC	Adaba Sustems Incomposited	//10/2018	270 MID	10.010.20000		-
	Altium Derigner 15	Altium Limited	11/14/2016	1 74 GB	15.0.7.36015		
	Altium Designer 17	Altium Limited	1/2/2017	2.50 GR	17.0.8.518		
	AMD Catalyst Install Manager	Advanced Micro Devices Inc	11/11/2016	33.6 MB	809160		
	Armedia USB Hort Controller Driver	Armedia Technology	10/15/2016	5 31 MB	1 16 33 1		
	Atmel Driver Files	Atmel Corporation	4/24/2019	5.04 MB	8135		
	Atmel LibUSBD Driver (v64)	Atmel	4/24/2019	725 KB	70125		
	Ratter Management Studio	Tevas Instruments Inc	4/14/2017	307 MB	1.3.54 Roild1		
	Blackhawk Emulation Device Drivers for Windows - v	Blackbawk	4/24/2019	507 1115	1.18.08.05		
	CasPdbCom	GLOBALMEDIA GROUP LLC	4/24/2019	2.13 MB	2.0.17.0		
	Ch Defense Sensor 64-bit	Carbon Black Inc.	8/10/2017	28.1 MB	2.0.4.9		
	Code Composer Studio 6.1.3	Texas Instruments	1/12/2017	15.2 MB	6.1.3.00034		
	Code Composer Studio 9.0.1	Texas Instruments	4/24/2019	3.56 GB	9.0.1.00004		
	B Dell ControlVault Host Components Installer 64 bit	Broadcom Limited	10/14/2016	12.7 MB	4,4,28,187		
	Dell Touchpad	ALPS ELECTRIC CO., LTD.	10/15/2016		10.1207.101.113		
	Digilent Software	Digilent, Inc.	12/21/2016	34.4 MB	1.4.7		
	eDataPump	GLOBALMEDIA GROUP LLC	6/13/2017	337 KB	1.0.0		
	Coogle Chrome	Google, Inc.	10/16/2018	52.3 MB	73.0.3683.103		
	3 Intel(R) Dynamic Platform and Thermal Framework	Intel Corporation	11/10/2016		8.1.10605.221		
	Intel(R) Network Connections Drivers	Intel	10/12/2016	916 KB	20.4		
	Intel(R) Wireless Bluetooth(R)(patch version 19.0.1629	Intel Corporation	10/14/2016	40.0 MB	19.0.1603.0650		
	35 Intel® Management Engine Components	Intel Corporation	10/14/2016	79.2 MB	11.0.0.1167		1
	Intel® PROSet/Wireless Software	Intel Corporation	11/10/2016	481 MB	18.40.0		
	😢 Intel® Rapid Storage Technology	Intel Corporation	12/6/2016	18.4 MB	11.0.0.1032		
	3 Intel® USB 3.0 eXtensible Host Controller Driver	Intel Corporation	12/7/2016	18.4 MB	1.0.8.251		- 1

5. Within the new installer file, right click on the application titled **CASPDB Installer v.2.0.17.0** and click **Run as** administrator.

**NOTE:** If you are using a Windows 7 machine you will be prompted to install either a GlobalMed or Texas Instruments driver, depending on your firmware version. Allow the driver to install.

6. Once the installer has finished running, the CAS lock icon

appears in the taskbar.

NOTE: During the installation process you may see the below pop up, or similar. Click Ignore (see Figure 2).

## Figure 2 Click ignore



7. Click the up arrow located on the right of the taskbar to show hidden icons (see Figure 3).



#### Figure 3 Click the arrow

- 8. Click the battery icon and drag it down to the taskbar.
- 9. Right click the battery icon and select Show Monitor (see Figure 4).



#### Figure 4 Click show monitor

10. Enter **su** in the password prompt and click **Submit** (see *Figure 5*).

Password Required	
Enter Passwor	ł
**	
Quitarit Qu	
Submit Ca	

11. The **PDB Monitor** window appears. Verify the **S/W Version** shows **2.0.17.0** (see *Figure* **6**). **NOTE:** The **F/W Version** will still show the old firmware version number you may have had on the machine.

# Figure 6 Verify software status

		CAS	CEDTAL #.				2 0 17 0
/W VERSION	1: 2.0.17.0	CAS	SERIAL#:	CAS_INTO_DEF		S/W VERSION:	2.0.17.0
OWER PATH:	: AC	SYSTEM VO	LIAGE: 11.	.97 V S	YSTEM CU	RRENT: 0.4 AMP	5
HARGE TIME	: 0	BATTERY S	OC: 100.0	% в	SATTERY S	DH: 100.0 %	
	VOLTAGES	CURRENT	ON/OFF	STATUS			
2V SW:	12.0 V	0 A		GOOD			
OMPUTER:	19.9 V	0 A	ON	GOOD			
XAM CAM:	5.3 V	0 A	ON	GOOD			
OLENOID:	0.3 V	0 A		GOOD			
OP FAN:	12.0 V	0 A	ON	GOOD			
OT FAN:	12.0 V	0 A	ON	GOOD			
ONITOR:	11.9 V	0 A	ON	GOOD			
ODEC:	12.2 V	0 A	ON	GOOD			
THERNET:	12.0 V	0 A	ON	GOOD			
TCOPPOCES		3 2 °⊑					
AT NON CUT	D TEND. 07	0.05	BATTERY T	END. 77 0 %E			
UN TIME:	0 days 0 hou	urs 21 minut	tes 3 seco	nds		Shutdown U System D	Jnlock Irawers

12. A window appears shortly after opening the PDB Monitor window prompting you to update the firmware. Click **Yes** (see *Figure 7*).

FWUpdate : Do you w	th to upgrade the FW?
A firmware update for C	AS PDB is available but it should be done only by
qualified personal and a	t a time when the CAS CART is NOT IN SERVICE.
The On/Off functionalit	y of the CAS CART is implemented as an extension of
the host PC that is built	into the cart. The FW and Monitor program work as
an extension of the Wir	dows OS installed which at times Microsoft provides
updates and OS upgra	les like Win7/10. This message usually would pop u
if a new monitor program	in is installed that replaced a previous version. The
Monitor program is writt	en to be backwards compatible with previous rev FW
but both work together	and interact with whatever revision of Windows and
any Updates Microsoft	might release that might change how the computer
boots or shuts down. The	he FW update if interrupted or failing can require
additional steps to reco	ver from that which would be best to contact
GlobalMed's support de	sk. That can be done by email at
help@globalmed.com of	r by phone at 1-800-886-3692, option 2 or by
webpage at https://ww	w.globalmed.com/support/ or by other methods that
may have been pre-arra	nged with various customers.

13. Click the Program Setting tab to see the status of the firmware update in the text box (see Figure 8).

## Figure 8 Completed firmware update

us Fuel Gauge NVM Program Setting	gs		
PORT NAME: COM25	•	CHANGE SERIAL PORT	
	FIRMWARE UPGRADE	S ENB CHK FW REVS	
FILENAME:	BROW	UPDATE FIRMWARE	
Firmware Download - File is Vali Firmware "C:\ProgramData\GLO \CAS_PDB_FW_Rev2.0.17.0.crc Firmware Download Started Firmware Download - VERSION Firmware Download Complete Firmware Download - RECONNE	d CAS PDB Firmware BALMEDIA GROUP LLC\CasPo .enc" is being programmed CHECK OK ECTED OK	lbCom	

14. Once the firmware has updated, click the **Status** tab.

15. Verify the F/W Version shows 2.0.17.0 (see Figure 9).

Figure 9 Verify firmware update

tus Fuel Gauge	e NVM Progra	m Settings			
F/W VERSIO	N: 2.0.17.0	CAS	SERIAL#:	CAS_Info_DEF	S/W VERSION: 2.0.17.0
POWER PATH	: AC	SYSTEM VO	LTAGE: 11.	97 V SYSTEM	I CURRENT: 0.4 AMPS
CHARGE TIM	E: 0	BATTERY S	OC: 100.0	% BATTER	RY SOH: 100.0 %
	VOLTAGES	CURRENT	ON/OFF	STATUS	
12V SW:	12.0 V	0 A		GOOD	
COMPUTER:	19.9 V	0 A	ON	GOOD	
EXAM CAM:	5.3 V	0 A	ON	GOOD	
SOLENOID:	0.3 V	0 A		GOOD	
TOP FAN:	12.0 V	0 A	ON	GOOD	
BOT FAN:	12.0 V	0 A	ON	GOOD	
MONITOR:	11.9 V	0 A	ON	GOOD	
CODEC:	12.2 V	0 A	ON	GOOD	
ETHERNET:	12.0 V	0 A	ON	GOOD	
MICOPROCES	SOR TEMP: 89	).2 °F			
BAT MON CH	IP TEMP: 87	8°F	BATTERY T	EMP: 77.0 °F	
RUN TIME:	0 days 0 hou	ırs 21 minu	tes 3 seco	nds	Shutdown Unlock System Drawers

16. Right click on the battery icon and click **Hide Monitor** to close the PDB Monitor window.



## Figure 10 Click hide monitor

17. As part of the installation process, the recommended power plan for the CAS cart is installed. You can navigate to Control Panel> System and Security> Power Options to view it and it should be installed and selected (see Figure 11).

#### Figure 11 Power options



**NOTE:** After installation, it may be necessary to restart the computer to reconnect the PDB to the computer.

## **Troubleshooting for Windows 7**

For Windows 7 machines, new GlobalMed or Texas Instruments drivers are installed.

1. If the **ON/OFF** column of the **Status** tab is in red, as shown in *Figure 12*, and the Lost Coms dialog pops up, the driver may have been installed by the OS incompletely.

#### Figure 12 Failed driver installation

In Fuel Gauge	NVM Progra	an Settings				
W VERSION	NO DATA	CAS	SERIAL	N/A	5/W VERSION: 2.0.13.0	
ONER PATH:		SYSTEM VO	ETAGE: 0 V		SYSTEM CURRENT: 0 AMPS	Lost Coms
HARGE TERE	N/A	BATTERY SI	0C: 0 %		BATTERY SON: 0 %	
	VOLTAGES	CURRENT	ON/OFF			
2V 5H:	e v	0 A		NOCOMS		
ONPUTER:	e v	0 A		NOCORIS		
XAN CAN:	e v	0 A		NOCORS		PC and PDB lost coms,
OLENOID :	o v	0 A		NOCOH'S		1 1 A A A A A A A A A A A A A A A A A A
OP FAN:	0 V	0 A		NOCOMS		reduced functionality
OT FAN:	0 V	0 A		NOCOHS		
ONITOR:	e v	0 A		NOCONS		is being provided.
00801	0 V	0 A		NOCORIS		
THERNET:	0.V	0 A:		NOCOMS		
						and the second secon
						Continuo
						Continue
06 BOARD T	EMP: 0 *F					
	sectores.				Shutdown Unlock	

- 2. Restart your computer. Check the **Status** tab, if the **ON/OFF** column is still showing in red, continue with step 3.
- The driver must then be uninstalled, deleted and then reinstalled.

- 4. Open the Device Manager in Windows.
- 5. Expand Ports (COM & LPT) (see Figure 13).

Figure 13 Expand Ports

🛔 Device Manager	-	$\times$
File Action View Help		
⊨ ⇒   ╦   👔 🗊   💭		
AZ1353		
> iii Audio inputs and outputs		
> 💻 Computer		
> 👝 Disk drives		
> 🏣 Display adapters		
> 🔐 DVD/CD-ROM drives		
> 🐺 Human Interface Devices		
> 🦷 IDE ATA/ATAPI controllers		
> 🚠 Imaging devices		
> 🔤 Keyboards		
> III Mice and other pointing devices		
> 🛄 Monitors		
> 👮 Network adapters		
> 🛱 Ports (COM & LPT)		
> 🚍 Print queues		
> D Processors		
> 📱 Software devices		
> 💐 Sound, video and game controllers		
> 🍇 Storage controllers		
> 🏣 System devices		
> 🏺 Universal Serial Bus controllers		

- 6. Right click on GlobalMed LLC Cas PDB (COM163) or TIMSP430 USB (COM163) and click Uninstall.
- 7. Select Delete the driver software for this device and then click OK (see Figure 14).

#### Figure 14 Delete driver software

Confirm Device Uninstall
GlobalMed LLC Cas PDB (COM163)
Warning: You are about to uninstall this device from your system.
Delete the driver software for this device.
OK Cancel

8. To reinstall, right click on **Ports (COM & LPT)** and select **Scan for hardware changes**.

9. When the driver is detected and new window appears, click Update Driver (see Figure 15).

SAZIJA     SAZIA     SAZIA	rdevices ceen pr0004 Hub_m0003 R Installed (Code 28) e device information set or lick: Update Driver.
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Figure 15 Update Driver

10. Click **Browse my computer for driver software**. Once the driver is detected, click **Next** and allow the driver to update (see *Figure 16*).

Figure 16 Browse for driver software

How do you want to search for driver software?	Browse for driver software on your computer
Search automatically for undated driver coffware	Search for driver software in this location:
<ul> <li>Search automatically for updated oriver software Windows will search your computer and the internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.</li> </ul>	C:\ProgramData\GLOBALMEDIA GROUP LLC\CasPdbService  Browse Include subfolders
Browse my computer for driver software Locate and install driver software manually.	
	Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.

11. Check the **Status** tab of the PDB Monitor program to make sure the installation was successful.