

Application Note

English



GEN DAQ API Standalone

GEN2tB wireless Start/Stop control using mobile phone





Document version 1.0 – January 2019

For Perception 7.20 or higher

For HBM's Terms and Conditions visit www.hbm.com/terms

HBM GmbH Im Tiefen See 45 64293 Darmstadt Germany Tel: +49 6151 80 30 Fax: +49 6151 8039100 Email: info@hbm.com www.hbm.com/highspeed

Copyright © 2019

All rights reserved. No part of the contents of this book may be reproduced or transmitted in any form or by any means without the written permission of the publisher.

Table of Contents

T/	ABLE	OF CONTENTS	3
1	INT	IRODUCTION	5
2	PR	EPARATION	5
3	GE	TTING STARTED	6
	3.1	USE PERCEPTION TO SET THE LOCATION TO THE MAINFRAME	6
	3.2	SET UP THE WIFI ROUTER STEP BY STEP	6
	3.3	USE GEN DAQ API APP TO CONTROL THE GENESIS	





BLANK PAGE



1 Introduction

The document describes how to control the Genesis T-mainframes (GEN2tB, GEN3t, GEN7tA, GEN17tA) using your Android phone. It is useful when customer want use genesis mainframe as a standalone unit.

2 Preparation

Download the HBM GEN DAP API app from google app-store:

← Goo	ogle Play	Q	••••
HBM	HBM GEN DAQ A Hottinger Baldwin Messt	Pl echnik GmbH	
UN	INSTALL	OPEN	

Download the TP–link Tether app

গ্নি	TP-Link TP-LINK ⁻ PEGI 3 4.3 * (86,	Tether Technologie 580 🏝) • 5	es Co., Ltd. million ±		
	Anna Anna Anna Anna Anna Anna Anna Anna	Section 2		MAR STATES And States	
U	ININSTAL	L		OPEN	

- One WIFI router, we use TL-WR802N for example.
- One Genesis T-mainframe with local storage, we use Gen2tB for example.



3 Getting Started

3.1 Use Perception to set the location to the mainframe.

 Connect Perception (v7.20 or above) to the mainframe, use Perception to set the storage location to mainframe disk:

General Mainframe Recorder	General Mainframe	Storage location	Sync source	Master/Slave mode	Formula recorder name	্ৰুট ০০৩ External trigger in direction
Analog Channel	Gen2tb-XY	Mainframe Disk 1	RTC	Stand Alone	FormulaRecorder	Rising Edge
Marker Channel (Events) Timer-Counter Channel Memory & Timebase						
Mainframe Timebase groups						

Enable Power on settings. You can store your current setting to the power on Setup, so every time you switch on the mainframe, the storage location will be set to the mainframe disk. Go to Settings->Mainfram settings.

When selecting users	Set the power on setup for all connected mainframes. settings', a mainframe will automatically use the stored 'user settings' during startup.
Gen2b-XY C External Storage C ISCS1 C ISCS1 C ISCS12 Network Premote Access	Power on settings System default Status: This maintrane, will statup with previously stored user settings and will statup Status: This maintrane, will statup with previously stored user settings and will statup Acquistion mode In Reload user settings as current settings Acquistion mode In Reload user settings In Reload user
	User settings were stored succesfully.

When above are done. Close Perception and unplug the Ethenet cable from Gen2tB.

3.2 Set up the WIFI router step by step

The most important thing to set up your WIFI router is to know its password.

Take the TL-WR802N for example, you can find this information in the backside of the WIFI router. The SSID is TP-LINK_5C6A and password is 25401257. In addition, you can find the default access username (admin) and password (admin) to http://tplinkwifi.net.



 Connect the WIFI router to the Gen2tB USB port and then power on the WIFI router with no Ethernet cable connected, like below.



Connect your mobile phone to its WIFI signal TP-Link_5C6A.



Enter the password.



W	i-Fi		
С	TP-LINK_5C6A Password		
	Show password		
	Advanced options		\checkmark
		CANCEL	CONNECT

• Open the TP-Link Tether app on your phone and then choose TP-Link Router.

	+
Unknown Device	
TP-Link Router	

Choose Visit Web Page.



Input the username and password, both *admin*.



2 admin	
<i>P</i>	
Login	

Choose Quick Setup the router.

\sim		
	-	
luick Setu	P	
Run the Quic	k Setup to manually configure your internet conne	ection and wireless setti
To continue,	please click the Next button.	
	e click the Exit to Status page button.	
To exit, pleas		
To exit, pleas	Exit to Status page Next	

Choose Access Point.





Nothing needs to be changed below, so just click next.

Quick Setup - Wireless Set	ling
Zuick Setup - Wireless Set	ung
Access Point Mode Setting	
Wireless Network Name(SSID):	TP-LINK_5C6A
Channel:	Auto 🔹
Wireless Security Mode:	Most Secure(WPA/WPA2-PSK) 🔻
AP Wireless Password:	25401257
	You can enter ASCII or Hexadecimal characters. For I be between 8 and 64 characters; for ASCII, the length characters. For good security it should be of ample le commonly known pharse.

✤ Choose Smart IP(DHCP) and click next.

Quick Setup - Netwo	ork Setting
Туре:	Smart IP(DHCP) •
	Note: The IP parameters cannot be configured if you have (in this situation the device will help you configure the IP as you need).
IP Address:	192.168.0.254
Subnet Mask:	255.255.255.0 •
	We recommend you configure this AP with the same IP s mask, but different IP address from your root AP/Router.
DUCP Server	Disable Enable



Click Reboot to **Reboot** your WIFI router.

Quick Setup - Review Setting				
Congratulations! This de Internet. For detailed set necessary.	Congratulations! This device is now connecting you to the Internet. For detailed settings, please click other menus if necessary.			
Changing working mode config	uration will not take effect until this device is reboote			
Confirm the configuration you ha	ve set. If anything is wrong, please go Back to reset. of these settings that you'll need later for reference.			
Wireless Settings				
Operation Mode:	Access Point			
Wireless Network Name(SSID):	TP-LINK_5C6A			
Wireless Channel:	Auto (Current channel 6)			
Wireless Security Mode:	Most Secure(WPA/WPA2-PSK)			
Local AP Wireless Password:	25401257			
Network Settings				
Default Access:	http://tplinkwifi.net			
Login UserName:	admin			
Login Password:	admin			
LAN Type:	Smart IP(DHCP)			
Save Save the	ese settings as a text file for future reference			

After reboot, you will get a Dialog to show you the setup is completed. You can close this Dialog now.

Quick Se	tup - Completed
Next step after	the reboot:
1.Connect the	internet cable to Ethernet port on the TL-WR802N;
2.Connect one	of your laptop, smartphone or tablet to this Wi-Fi network:
Wi-Fi Networ	k Name: TP-LINK_5C6A
Wi-Fi Passwo	rd: 25401257
3.Be sure the L	ED is solid on; if not, please access the <u>http://tplinkwifi.net</u> again via Ethernet c
4.Your setup is	completed.



Now you can connect the Ethernet cable between Gen2tB and WIFI router.



The router setup is finished, then you can go to next step to use GEN DAQ API app to control it.

3.3 Use GEN DAQ API app to control the Genesis

Check the Gen2tB IP address (192.168.0.101) from its screen.





Open the GEN DAQ API app on your mobile phone and input the IP address of the Gen2tB.
 Now you can use this app to control the Gen2tB.

	Genesis	•
Connection		
IP Address		
192.168.0.10)1	⊗
	Connect	
=	Genesis	
Acquisition St	ate	
Acquisition SI	e	
Acquisition St Idl Acquisition co	ate e ontrol	
Acquisition St Idl Acquisition co	e ontrol Preview	
Acquisition St Id Acquisition co	e ontrol Preview Record	

Identify mainfra	me	
No.	Switch on	



Head Office HBM Im Tiefen See 45 64293 Darmstadt

Germany Tel: +49 6151 8030 Email: info@hbm.com

France

HBM France SAS 46 rue du Champoreux BP76 91542 Mennecy Cedex Tél:+33 (0)1 69 90 63 70 Fax: +33 (0) 1 69 90 63 80 Email: info@fr.hbm.com

UK

HBM United Kingdom 1 Churchill Court, 58 Station Road North Harrow, Middlesex, HA2 7SA Tel: +44 (0) 208 515 6100 Email: info@uk.hbm.com

USA

HBM, Inc. **19 Bartlett Street** Marlborough, MA 01752, USA Tel : +1 (800) 578-4260 Email: info@usa.hbm.com

PR China

HBM Sales Office Room 2912, Jing Guang Centre Beijing, China 100020 Tel: +86 10 6597 4006 Email: hbmchina@hbm.com.cn

© Hottinger Baldwin Messtechnik GmbH. All rights reserved. All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.



measure and predict with confidence

r05345_01_E00_00