BEACON GLOBAL TECHNOLOGY





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一、开发环境准备

- 1、BT-XX-CDM 系列模块开发工具必须在 Linux 系统中运行。
- 2、用户使用的 Windows 操作系统电脑,应首先安装 Virtual Machine(虚拟机)软件。
- 3、模块自带 U 盘含有初始化开发文件。

二、开发环境初始化

1、打开"VMware"虚拟机软件,选择打开模块出厂自带U盘中的开发文件夹"CentOS-64bit-CDM.vmx"文件,并执行"运行"。



2、输入开发文件密码(密码: BeacON),进入开发环境主界面。







三、编译开发程序

1、执行语句"\$ vi bgt_cdm_test.c"打开"bgt_cdm_test.c"文件进行程序开发。





2、用户可以根据自己对数据的需求和模块端口的使用进行程序开发。

gwdev@localhost:*/gateway-cdm/cross-gateway/write-	read-test	_ <u> </u>
File Edit View Search Terminal Help		
<pre>#include <stdio.h> #include <stdio.h> #include <stdlib.h> #include <string.h> #include <unistd.h> #include <pthread.h> #include "bgt_cdm.h" #define CDM_DB_BASE_ADDR (0x01000000) // tick ³-ʱ´¦Àíº`Êý</pthread.h></unistd.h></string.h></stdlib.h></stdio.h></stdio.h></pre>		
printf(" <mark>b</mark> gt CDM tick error!\r\n"); }		
<pre>int main(int argc, char** argv){ int i, j, index, tick_enabled = 0; bgt_addr address = CDM_DB_BASE_ADDR; bgt_byte wBuf[128], rBuf[128]; cdm_tick_error_handler *tick_handler = NULL;</pre>		
if (argc > 1) {	13,10-17	Тор

3、编译完成后执行": wq"命令,回到系统界面。执行"make"命令,使编译好的程序文件保存并执行。





备注: CDM 采用类双口 RAM 模型。用户只需要提供存取地址和存取数量即可实现对网关内部数据的操作。



模块对不同的外设或功能进行了地址区域的划分,通过对不同地址的操作来达到对不同外设操作的目的。目前不同的网关设备开放了不同的外设,具体细节可咨询 Beacon 技术服务。

四、模块导入程序

1、Windows 系统界面下浏览器打开模块配置界面。

模块 E1 以太网接口出厂 IP 地址为 192. 168. 0. 200, E2 以太网接口 IP 地址 192. 168. 1. 200。(OLED 显示屏上显示 IP 地址信息)



模块上电后,OLED显示屏上会滚动显示以上两个IP地址,方便查找模块不同接口的IP地址。采用网页配置时, 推荐采用如下浏览器及以上版本(更好的支持HTML5的功能): IE10,GOOGLE Chrome 35,FIREFOX 35,Safari 7 及 以上的版本.

把本地电脑的IP地址与所连接的模块端口配置成相同的IP网段,例如本案例采用E1接口进行配置,本地电脑配置成 192.168.0.177,然后在GOOGLE Chrome浏览器的地址框里面输入192.168.0.200,点击回车键后,进入到模块的配置页面如下图。

模块有两个以太网通讯口,可以配置相同网段IP地址,或者不同网段IP地址。在同一个网段时,可选择模块上任意 一个以太网接口和交换机连接(注意:不能同时把模块E1和E2接口设置成相同的网段),再把同一网段下两种协议 的设备同时也接入交换机。

如果在不同网段通讯时,需要选用模块的两个以太网口进行通讯,可把模块E1和E2设置成不同的网段,两种协议的 设备分别接入E1和E2口即可。

以太网1口默认地址为192.168.0.200;以太网2口默认地址为192.168.1.200。在浏览器里面输入192.168.0.200 然 后可以看到模块的配置主页面。

⊬)→ ୯ ŵ	(i) 192.168.0.200/index.asp		⊘ ☆	lii\ 🖸 🔼
	EtherNet/IP - Modbus Serial	_		Logout 👤 admin
Home	Home / Module Status			
B Module '	*			
Modbus Serial	2 Module Name	BT-EN-MB2-CDM		
EtherNet/IP Server	E1: IP Address	192.168.0.200		
EtherNet/IP Client	5 E1: MAC Address	B4:A9:FE:00:29:E9		
	Product Base Version	2.01.091		
	Product Version	2.01.080		
	Firmware Date	01/02/2019		
	Serial Number	0116F2BF		
	Free Memory Size	223.67 MB		
	Status	No Configuration		
	Uptime	00:47:32		

在配置页面的右侧导航条内,点击Login,将打开如图1.2所示。点击Login。

Login 🔔

按照界面提示,输入用户名和密码进入模块配置。 用户名(Username):admin 密码(Password): admin 点击登录(Sign In) **请注意:如果不登录,只能浏览配置,无法进行配置修改。**

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	Sign In		
	Username		
	admin		
	Password		
	Sign In Remember me		
登录后看	到导出配置文件	Export Config 和恢复配置文件 选择文件 未选择任何文件	
-	# Home	Home / Backup And Restore	
	🚯 Module	Lieland configuration file to alignt	
-	General Configuration		
	Internal Data View	Export Config	
	Backup / Restore		
	Change Password	Download configuration file to Module	
	Firmware Upgrade		
	▶ Set Date & Time	准择文件 未进择任何文件	
	Reboot Module		

点击Internal Data View,可以查看模块内部寄存器,可以从这里检查读或写的数据。

Decimal D)isplay H	lexadecimal Display	Float D)isplay AS	CII Display					
Address	0	1	2	3	4	5	6	7	8	9
D	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

查看模块 IP 地址,点击常规配置 → General Configuration ,修改模块的 IP 地址。



	Ethernet Port 1	
	IP Address	192.168.0.200
	Subnet Mask	255.255.255.0
	Default Gateway	192.168.0.1
	Ethernet Port 2	
	IP Address	192.168.1.200
🙆 Module 🔨 🔨	Subnet Mask	255.255.255.0
	Default Gateway	192.168.1.1
 General Configuration 		Save

点击修改密码,可以修改模块的登录密码。▶ Change Password

lome / Change Password
User Name: admin
Current Password
New Password
Confirm Password
Save

点击 ⁺ Set Date & Tir	可以设置模块的日期和时间。
General Configuration Internal Data View Backup / Restore	Warning Proceed with caution. It's important to set the correct date and time for the modules Time Date functions. Please refer to the user manual for additional information. DateTime
Change Password Firmware Upgrade Set Date & Time	mm/dd/yyyy hh:liss 🗶 🎛
Reboot Module	Set Date and Time

点击 * Reboot Module 表示重启模块。(不是复位)



# Home	Home / Reboot
3 Module	
General Configuration	Warning
Internal Data View	The module has to be rebooted due to any configuration changes. Note that the data communication will be temporarily interrupted if reboot.
Backup / Restore	, , , ,
Change Password	OK to reboot the module now?
Firmware Upgrade	ок
Set Date & Time	
▶ Reboot Module	

2、地址栏输入"192.168.0.200/cgi-bin/startsshd",开启模块的 sshd 服务端口。

) → C' û	① 192.168.0.200/cgi-bin/startsshd	⊡ ☆	III 🖸 🗡
arting SSH server			
ie!			

3、配置虚拟机的网络端口和 Windows 系统的本地网络端口为同一网段 IP 地址。



ame					
	Туре	External Connection	Host Connection	DHCP	Subnet Address
VMnet0	Bridged	Intel(R) 82577LM Gigabit Ne	··· -	-	
VMnet1	Host-only	1961	Connected	Enabled	192.168.248.0
VMnet8	NAT	NAT	Connected	Enabled	192.168.128.0
VMnot Tof				Add Netwo	ork Remove Ne
Bridge	d (connect VI	Ms directly to the external net	twork)		
Bridge	ed to: Intel(F	२) 82577LM Gigabit Network (Connection	•	Automatic Settings
O NAT (s	hared host's	IP address with VMs)			NAT Settings
O Host-o	only (connect	VMs internally in a private ne	twork)		an an
Conne	ct a host virt	ual adapter to this network			
Host	/irtual adapte	er name: VMware Network Ad	apter VMnet0		
Use lo	cal DHCP serv	vice to distribute IP address t	o VMs		DHCP Settings
			www.co.co.		
Subnet IP	1	Subnet ma	sk:		
Desta - C	E III	c			Analy 1
Restore De					Apply Hel
	awde	ev@localhost:~/dateway	-cdm/cross-gatewa	v/write-re	ad-test
		ch Terminal Help	Jacob Jacob	,	
o Edit V	1/1/314/	ch renninal nelp			
le Edit N vdev@loc	alhost c	ross-gatewayl\$ cd w	rite-read-test		
le Edit V wdev@loc wdev@loc	alhost c alhost w	ross-gateway]\$ cd w rite-read-test]\$ if@	rite-read-test congfig		
le Edit ' wdev@loc wdev@loc sh: ifco	alhost c alhost w ngfig: co albost w	ross-gateway]\$ cd w rite-read-test]\$ ifd ommand not found	rite-read-test congfig		
le Edit ' wdev@loc wdev@loc sh: ifco wdev@loc <u>o167777</u> 3	alhost c alhost w ngfig: co alhost w <u>6:</u> flags:	ross-gateway]\$ cd w rite-read-test]\$ if ommand not found rite-read-test]\$ if =4163 <up,broadcast,f< td=""><td>rite-read-test congfig config RUNNING,MULTICAS</td><td>T> mtu</td><td>1500</td></up,broadcast,f<>	rite-read-test congfig config RUNNING,MULTICAS	T> mtu	1500
le Edit ' wdev@loc wdev@loc sh: ifco wdev@loc <u>o1677773</u> in	alhost c alhost w ngfig: co alhost w <u>6:</u> flags: et 192.10	ross-gateway]\$ cd w rite-read-test]\$ if ommand not found rite-read-test]\$ if =4163 <up,broadcast, 58.0.129 netmask 25</up,broadcast, 	rite-read-test congfig RUNNING,MULTICAS 55.255.255.0 br	T> mtu oadcast	1500 192.168.0.255
le Edit ' wdev@loc wdev@loc sh: ifco wdev@loc <u>o1677773</u> in in et	alhost c alhost w ngfig: co alhost w <u>6:</u> flags= et 192.10 et6 fe80 her 00:00	ross-gateway]\$ cd w rite-read-test]\$ ifd ommand not found rite-read-test]\$ ifd =4163 <up,broadcast, 58.0.129 netmask 29 ::20c:29ff:fee2:7fc ::29:e2:7f:c5 txqu</up,broadcast, 	rite-read-test congfig RUNNING,MULTICAS 55.255.255.0 br 5 prefixlen 64 euelen 1000 (Et	T> mtu oadcast scopeid hernet)	1500 192.168.0.255 0x20 <link/>
le Edit ' wdev@loc wdev@loc sh: ifco wdev@loc <u>o1677773</u> in in et RX	alhost c alhost w ngfig: cc alhost w 6: flags= et 192.10 et6 fe80 her 00:00 packets	ross-gateway]\$ cd w rite-read-test]\$ if ommand not found rite-read-test]\$ if =4163 <up,broadcast, 58.0.129 netmask 2 ::20c:29ff:fee2:7fc ::29:e2:7f:c5 txqua 269 bytes 25894 (2</up,broadcast, 	rite-read-test congfig RUNNING,MULTICAS 55.255.255.0 br 5 prefixlen 64 euelen 1000 (Et 25.2 KiB)	T> mtu oadcast scopeid hernet)	1500 192.168.0.255 0x20 <link/>
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^{4、}输入"scp"语句将编译好的程序导入模块的根目录(密码: HelloBGT)。



gwdev@localhost:~/gateway-cdm/cross-gateway/write-read-test File Edit View Search Terminal Help RX packets 10 bytes 1044 (1.0 KiB) RX errors 0 dropped 0 overruns 0 frame 0 TX packets 10 bytes 1044 (1.0 KiB) TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0 [gwdev@localhost write-read-test]\$ ping 192.168.0.200 PING 192.168.0.200 (192.168.0.200) 56(84) bytes of data. 64 bytes from 192.168.0.200: icmp_seq=1 ttl=64 time=2.49 ms 64 bytes from 192.168.0.200: icmp_seq=2 ttl=64 time=0.465 ms 64 bytes from 192.168.0.200: icmp_seq=3 ttl=64 time=0.923 ms 64 bytes from 192.168.0.200: icmp_seq=4 ttl=64 time=1.09 ms ^C --- 192.168.0.200 ping statistics ---4 packets transmitted, 4 received, 0% packet loss, time 3009ms rtt min/avg/max/mdev = 0.465/1.242/2.491/0.757 ms [gwdev@localhost write-read-test]\$ ls 🖓 bgt_cdm.h bgt_cdm_test.c bgt_cdm_wr_test Makefile [gwdev@localhost write-read-test]\$ scp bgt_cdm wr_test root@192.168.0.200:/gateway /bin/cdm The authenticity of host '192.168.0.200 (192.168.0.200)' can't be established. RSA key fingerprint is 09:33:d9:c9:1d:60:14:8c:d6:4c:89:09:aa:18:be:e8. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added '192.168.0.200' (RSA) to the list of known hosts. root@192.168.0.200's password:

5、检查程序文件是否进入到模块的根目录。

gwdev@localhost:~	_ = ×
File Edit View Search Terminal Help	
[gwdev@localhost ~] <u>\$ ssh root@192.168.0.200</u> root@192.168.0.200's password: [root@gateway ~] <u>#_cd /gateway/bin/</u> [root@gateway bin]# ls bgt_cdm_wr_test* cdm_2s* runservice* cdm* mservice* startup* [root@gateway bin]#	

五、添加模块自启动程序

1、执行"vi startup"命令,对 startup 文件进行编辑。

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gwd	ev@localhost:~	_ = ×
File Edit View Search Terminal Help		
[gwdev@localhost ~]\$ ssh root@192.168 root@192.168.0.200's password: [root@gateway ~]# ls [root@gateway ~]# cd/gateway/bin/ -sh: cd/gateway/bin/: not found [root@gateway ~]# cd gateway/bin/ -sh: cd: can't cd to gateway/bin/ [root@gateway ~]# cd /gateway/bin/ [root@gateway bin]# ls bgt_cdm_wr_test* cdm_2s* run cdm* mservice* sta [root@gateway bin]# vi startup]	service* intup*	
2、在 case 语句的 start 选项中添加自己的	的程序	
gwd	ev@localhost:~	- • ×
File Edit View Search Terminal Help		
#!/bin/sh #		
DRIVER_BACKGROUND_SCRIPT=/gateway/bir DRIVER_NAME=mservice	/runservice	
OPTIONS=""		
<pre>case "\$1" in start) echo "Starting driver " \$DRIVER_BACKGROUND_SCRIPT &</pre>		
<pre>/gatway/bin/cdm/bgt_cdm_wr_te ;; restart)</pre>		
echo "Restarting driver ' killall \$DRIVER_NAME \$DRIVER_BACKGROUND_SCRIPT & ;;		
stop)		
echo -n "Stopping driver killall \$DRIVER_NAME 		
I startup [Modified] 14/29 48%		
在添加此段文字后,退出保存,然后重启	网关即可。	
注意:最后的&符号一定要加上。		

退出保存: 依次按下 "ESC", ":wq" 即可。



模块出厂时内嵌了不同的工业以太网协议,现场总线协议或者串行通讯协议。

不同协议具有相应的配置方式和使用手册,在 CDM 模块开发过程中,请采用以下联系方式和我们进行联系,以获 取更为详细的技术支持。

联系我们

如果在使用过程中有更多的问题,可以通过以下方式联系我们获得支持。

技术支持	<pre>support@beacongt.com</pre>
亚太区销售	asia@beacongt.com
北美区销售	usa@beacongt.com
微信公众平台	
网址	http://www.beaconglobaltech.com