



The GPS-1 telemetry module is a high performance, secure, tracking, monitoring, and data logging system which enables transision of GPS position and telemetry data up to 100 miles LOS (Line of sight) to the Base-station 1 receiver. It also features local logging logging of all sensor and GPS data onboard Micro-SD, as well as a flexible power control.

- 16MIPS RISC CPU for high-performance GPS system processing
 - Filtering for GPGGA/GPGSA to preserve RF Link bandwidth and real-time background processing
- SDIO Micro-SD Memory Card support (J6) for data logging
 - FAT16/FAT32 media (up to T10 (25Mhz HDLC) V2.0 32GB Cards)
- High-performance uBlox LEA-6 GPS Receiver Module with uBlox u-Center USB support
- 30dbM (1Watt) 900Mhz FHSS Modem supporting 500Kbps datarate
 - Up to 16 independent channels operate concurrently
 - AES Encryption for link security
 - Requires no field configuration/provisioning or HAM Radio License
- External SMA connector for active input GPS Receiver antenna
 - Sarantel SL1206R GeoHelix®-P2 high-performance, high-gain, low-noise amplified active input GPS receiver antenna (recommended)
- Up to 12V, 10A input power support
- Temperature Sensing from -55°C to +125°C with 0.5°C Accuracy
- Voltage Metering of Primary battery, Current, and GPS Almanac Battery
- Supported software: any NMEA GPS Program (ExpertGPS, VisualGPS, Google Earth, etc)
- 3V External battery for GPS Almanac back up and uBlox-6 Hot-Start™
- Over 9hrs operational time (running all features) using 9.6V 2200mah NiMh 8xAA battery pack

ACCESSORIES

- Sarantel SL1206R GeoHelix®-P2 high-performance, high-gain, low-noise amplified active input GPS antenna
- 0dBi RF Antenna + low-loss RG174 RPSMA extension cable
- Deans Male plug
- Micro-SD Card
- External 3V GPS Battery with JTEK connector

MECHANICAL

Dimensions: 49.35mm W x 91.35mm L (1.94" W x3.59" L) PCB Mounting hole dimensions: 86.65mm x 43.65mm



- J6: Micro-SD Slot: Any Micro-SD card formatted as either FAT16 or FAT32 media is supported.
- J18: GPS Battery, attach GPS 3V Almanac battery to this connector. The connector is keyed for connection.
- J2: uBlox uCenter USB Port
- J11: RF Modem connection, RPSMA plug
- J4: GPS Modem connection, SMA plug
- J12: Power + Switch: Connective positive to +, negative to -, A/B to switch, to use without switch, either shunt A/B or connect positive to B lead, and negative to lead.

CONFIGURATION JUMPER (CFG/CFGZ)

- Default, Normally pins 11-12 are shorted (which runs GPS processing at boot). Note that this is the 6th Jumper position from the edge of the board.

NOTE: When this jumper is removed, the system allows for remote login and control (default password=rfs1) NOTE: If this jumper is removed, your Base-station will NOT show any data on the display until the "gps" command is issued via the USB connection on the Basestation to the host computer.

LEDS

- D22: BPWR glows red with Battery Power
- D14: Activity blinks green with RF Modem activity
- D4: Fix Glows Blue with GPS position
- D3: Sys Toggles with system activity
- D29: SDIO Toggles when writing data to SD-Card

CONFIGURATION AND PRE-FLIGHT

- 1. Attach RPSMA Modem Antenna
- 2. Attach SMA GPS Antenna
- 3. Attach J18 GPS Battery
- 4. Download GPS Almanac to the device, connect J2 Mini-USB to host Computer and use uCenter
- 5. Verify CFG_1 Jumper pins 11-12 are shorted (this is the 6th position from the far left of the pin header)
- 6. Connect Power, and optionally, power switch
- 7. Verify a fresh FAT32 or FAT16 formatted SD-Card is installed in J6, Micro-SD Slot
- 8. Wait for GPS Lock LED and airplane symbol on receiver



MOUNTING GPS-1

GPS1 requires a firm mounting in order to operate properly, mechanical vibrations may reduce performance and can damage your system if it is not mounted securely. It is best to mount the unit using stand-offs and 4-40 mounting bolts.



GPS PRE-FLIGHT CONFIGURATION

Your GPS1 module comes pre-configured for Aircraft mode GPS telemetry. The uBlox GPS chipset also features a 2 week GPS Almanac (cache) which works in conjunction with the GPS almanac cache battery. The GPS Almanac aids navigation by providing for Ephemeris data at start-up and allows for a so-called "hot-start". When the GPS module is powered down, the GPS Back-up battery keeps the Almanac up to date until the unit is powered back on again. If the GPS almanac is pre-programmed, initial lock times can take as long as 5 minutes while the uBlox chipset downloads the GPS Almanac over the air (OTA). To accelerate start-up and provide a 2-week cache of data (with battery back-up), the following procedure is recommended for pre-flight configuration.

- 1. Install uCenter (6.20) or later as located on the CD-ROM
- 2. Connect the GPS battery to J18



3. Connect a mini-USB cable to the GPS1 USB port and the other side to the computer



- 4. Start uCenter, select the "Receiver->Port->XXX" where XXX is the USB port found by your computer attached to GPS1. NOTE: you can use DeviceManager under Windows and find the uBlox USB Device port.
- 5. Select Configuration View as below

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	Map View Recent Map Views Chart View Recent Chart Views Histogram View Recent Histogram View Camera View)- - -		C/N0 31.0' WAAS 31.38 E 44 Az 136 C/N0 34.0 GPS G15 E 29 Az 261 C/N0 260 GPS G4 E 30 Az 156 E 30 Az 156 E 30 Az 156 E 30 Az 156 E 30 Az 156
	Deviation Map Sky View	F12		C/N0 34.0 GPS G1 EI 11 Az 39 C/N0 20 0
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6. Verify that the configuration data will be saved to the device (BBR, FLASH, I2C EEPROM selected)

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7. Verify that NAV5 is set to Airborne Mode

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Note that if the configuration is not set, uCenter will prompt to write back the data to the receiver. Always answer Yes if you are sure of your configuration, if not, press "No"

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8. Verify the Rate is set to 2HZ (500msec) for 1-second real-time response with the Base station receiver

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9. Select "Tools->AssistNow Offline"

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PATE (Ports)				EI 33 Az 220
RINV (Remote Inventory)				GPS G2
RST (Reset)				El 1 Az 187
RXM (Receiver Manager)				C/NU
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TM (Time Mark)				C/N0 5
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10. Select 14 Days AlmanacPlus, and FLASH update

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PM (Power Management)			C/N0 42.0
PM2 (Extended Power Management)			GPS G26
RATE (Rates)			C/N0
RINV (Remote Inventory)			GPS G2 55
RST (Reset)			EI 2 AZ 186 C/N0
RXM (Receiver Manager)			GPS G11 55
TM (Time Mark)			C/N0
TM2 (Time Mark2)			55
TMODE (Time Mode)			dB 5
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The unit is now configured. Be sure to leave the GPS Battery connected to the module so that the GPS Almanac data is preserved up to and during flight. Should the GPS lose telemetry lock during flight, the GPS battery will ensure hot-start and re-acquisition of fix in < 1 second with hot-start enabled.

Should your unit become accidentally reconfigured mis-configured, please visit the website http://www.realflightsystems.com/ for the latest uBlox configuration file.

APPENDIX-I GPS-I REMOTE SHELL

When the configuration jumper on pins 11-12 is removed (the 6th Jumper position from the edge of the board), and the Base-station is connected to the host computer USB port, the system will boot up and provide a remote control serial console (like the remote control console on the GPS-2). Following is the remote control console procedure.

- 1. Connect the USB port of the Base station to the host PC. Windows will install drivers for the FTD232 serial device.
- For Windows, use any terminal emulation program you have installed (e.g. Hyperterminal), or use Putty (located on the CD). Go to Device Manager and look under Com ports to find the name of the COM port to connect to. Launch Putty, you will want to type the NAME of the Com-Port (e.g. COM23) into "serial line", "9600" into speed, and type the name of the COM-Port (e.g. COM23) into the "Saved Sessions Field". Press "Save".

R PuTTY Configuration		×			
Category:					
	Basic options for your PuTTY session				
	Specify the destination you want to connect to Serial line	Speed			
	Connection type: Raw Telnet Rlogin SS	9600 H			
 Behaviour Translation Selection Colours Connection Data Proxy Telnet Rlogin SSH Serial 	Load, save or delete a stored session Saved Sessions COM23 COM15 COM15 COM18 COM19 COM21-DNT COM22 COM23 COM23-DNT	Load Save Delete			
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About	Open	Cancel			

3. Next, click on the Serial item on the list to the left titled "Category"

Real PuTTY Configuration	1.1	X
Category:		
Session Logging Terminal - Keyboard - Bell - Features Window - Appearance - Behaviour - Translation - Selection Colours Connection - Data - Proxy - Telnet - Rlogin SSH Serial	Options contro Select a serial line Serial line to connect to Configure the serial line Speed (baud) Data bits Stop bits Parity Flow control	Iling local serial lines COM23 9600 8 1 None None
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- 4. Confirm flow control off and 8,1,N serial settings. Keep in mind that if you use a new USB port on Windows, you may have to go through this process again (a well endowed desktop system may support dozens of USB ports). When satisfied with the new connection profile click on "Session" (under Category) to return to the previous menu. Press "Save", then press "Open".
- 5. Now, the next time you run Putty you may load the configuration and just press "Open".
- 6. Now start putty and reboot the Base station (power cycle)
- 7. Press enter when the prompt below is seen. NOTE: if the enter key is not pressed (e.g. you type nothing when the Base station boots), the USB connection acts as an NMEA output console allowing other programs (e.g. ExpertGPS) to perform real-time mapping of the data.

🔁 COM41 - PuTTY	
J8 [5-6] : JP2 [SDA3] OFF	
J8 [7-8] : JP3 [Base] ON	
J8 [9-10] : JP4 [GPS] OFF	
J8 [11-12]: JP5 [RSVD] ON	
J8 [13-14]: JP6 [RSVD] OFF	
J8 [15-16]: JP7 [RSVD] OFF	
J8 [17-18]: JP8 [RSVD] ON	
J8 [19-20]: JP9 [RSVD] ON	
J8 [21-22]: PWR VCC 5V	
J8 [7-8] : ON - Base-Station mode enabled J8 [9-10] : OFF - Enter GPS2 console mode rf0: DNT900C - channel: 0 SD:adding/opening SD/MMC (SPI) volume "sd:0:"no SD-Card found! NOTICE: FS initialization failed Real Flight Systems - [GPS2] system init complete Checking for user input on USB system console. Press enter to continue	
checking for user input on our system console, riess enter to continue	
USB Console: Base-station-1 console mode	
Waiting for connnection to remote	. HI

8. Boot the GPS-1 transmitter with the jumper removed. Note, one should be careful removing the 2MM jumper, it is not designed to be pried off. Use a small-tipped flat-head screw-driver and gently lift up on the bottom of the jumper.

🛃 COM41 - PuTTY	
PIC24 ADC	
System +/- Power: 10.23 V	
GPS Backup Power: 1.22 V	
Current : 230 mA	
: 0 mA	
J9 Pin 3 : 0.00 V	
J9 Pin 5 : 0.00 V	
J8 Pin 4 : 0.01 V	
: 0.00 V	
SD:adding/opening SD/MMC (SPI) volume "sd:0:"no SD-Card found!	
NOTICE: FS initialization failed	
Real Flight Systems - [GPS1] system init complete	
GPS-2 login	
Password:**	
Login incorrect	
GPS-2 login	
Password:****	
GPS-2 login success	
Welcome to GPS-2!	E
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9. Login using the default password **rfs1** - commands may now be issue to the Telemetry transmitter.

V55ENDIX-2 G52-1 COMMAND REFERENCE

gps - go into GPS mode, press "x" to exit adc - show adc stat - show statistics restore - restore defaults save - save configuration pass <password> - set the password reboot - reboot the system

PRE-FLIGHT

- Charge all batteries, they should be about 11V or more when fully charged.
 - The systems will shut down when the battery voltage reaches 5.36v, this is nominally 3-4hrs later on the base-station and 8hrs on the remote (2500ma battery on remote).
 - At 6 volts, a warning will appear on the base-station.
- Install GPS Battery
- Load the GPS Almanac use uCenter (on the CDROM) and select "14 Day Almanac Plus"
- Verify Lock sequence where you have multiple (> 4 total) satellites, a flashing airplane, and altitude.
- Freshly format SD Card, install into SD-Card
- Check Connections to battery and optional switch.

POST-FLIGHT Power off Immediately remove SD-Card, do not re-insert, it will overwrite your files! Note: Future firmware releases will support new file creation and date setting from GPS time.

OPENING NMEA DATA FILES WITH GOOGLE EARTH

- 1) Rename the NMEA log file gpstrack.nme to gpstrack.nmea
- 2) Launch Google Earth, the version used is as shown (6.2.2.6613)



FILE->OPEN



SELECT "ALL FILES"



Double click on the NMEA data file (gpstrack.nmea). A Dialog is presented to show options for the NMEA data-file import.



SELECT IMPORT OPTIONS

The above dialog is display, Select "Create KML Tracks", deselect other options. The file is opened and the Globe will move to the tracks just imported.

MOVE TO LOCATION



Double clock on the GPS Device, then click on the Tracks, and then the Arrow symbol entitled "No Name". Google Earth will Zoom in on the area of interest, you can move the Google earth nobs to get a better view of the data.

REPOSITION VIEW



SAVE GPS TRACK AS KMZ FILE

Right click on the GPS Device and select "Save Place as"



ELEVATION PROFILE

To show the Elevation Profile, right click on the tracks as below:



IMPORTING SENSOR DATA INTO MICROSOFT EXCEL

1) Launch Microsoft Excel, File->Open, All Files Selected

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WIZARD PAGE TWO: SELECT DELIMITERS

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Tag,Seconds,Main Batt,GPS Batt,Main Current,User Current,V1 Volts,V2 Volts,U1 Volts,U2 Volts,Temp (F),Temp (C),LRC

PLOT MAIN BATTERY VOLTAGE

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10	SPRFSA	26	11.03	V	0.05	V	3	28 mA	28 m/	\	0.02 \	/	0.02 \	V	0	V	0	V	41.9	F	5.5	C*42
11	SPRESA	28	11.04	v	0.05	v	2	92 mA	28 m/	\	0.03 \		0.02	v	0	v	0	v	41.9	-	5.5	C*4A
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20	CODEC A	40	11.03	v	0.05	v	2	12 mA	28 m/		0.03	,	0.03	v	0	v	0	v	42.7	-	6	C*40
20	SDRESA	53	11.00	v	0.05	v	2	20 mA	28 m/		0.03 \	,	0.02	v	0	v	0	v	42.7	-	6	C*46
22	SPRESA	55	11.07	v	0.05	v	2	20 mA	28 m/		0.03 \		0.03 \	v	0	v	0	v	42.7	F	6	C*46
23	SPRESA	57	11.07	v	0,05	v	2	20 mA	28 m/		0.03 \	/	0.02 \	v	0	v	0	v	42.7	F	6	C*43
24	SPRESA	60	11.07	v	0.05	V	2	12 mA	28 m/		0.03	/	0.03 \	v	0	v	0	V	42.7	-	6	C*47
25	ŚPRFSA	62	11.07	v	0.05	v	2	08 mA	28 m/		0.03 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*4A
26	\$PRFSA	65	11.08	v	0.05	v	2	28 mA	28 m/	\	0.02 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*41
27	SPRFSA	67	11.07	v	0.05	V	2	08 mA	28 m/		0.03	/	0.03	v	0	v	0	v	43.7	F	6.5	C*4F
28	\$PRFSA	69	11.07	v	0.05	v	2	24 mA	28 m/		0.03 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*4F
29	\$PRFSA	72	11.06	v	0.05	v	2	28 mA	28 m/	۱	0.03	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*48
30	\$PRFSA	74	11.07	v	0.05	v	2	12 mA	28 m/	۱	0.03 \	/	0.02	v	0	v	0	v	43.7	F	6.5	C*47
31	\$PRFSA	77	11.08	v	0.05	v	2	12 mA	28 m/	۱	0.03 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*4A
32	\$PRFSA	79	11.06	v	0.05	v	2	32 mA	28 m/	L	0.03 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*48 🗸
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2	\$PRFSA	7	10.95	V I	0.05 V	264 mA	28 mA	0.03 V	0.03 V		0 V	0 \	/	41 F	5 C*7A
3	\$PRFSA	9	11.05	V I	0.05 V	288 mA	28 mA	0.03 V	0.02 V		0 V	0 \	/	41 F	5 C*7F
4	\$PRFSA	12	11.05	v							შ v	0 \	/	41 F	5 C*4C
5	\$PRFSA	14	11.06	v							0 V	0 \	V	41 F	5 C*4C
6 SPRFSA 16 11.05 V Plot Area 0 V 0 V 41 F 5 C*43 7 SPRFSA 19 11.05 V 0 V 0 V 0 V 41 F 5 C*48															5 C*43
7 \$PRFSA 19 11.05 V 0 V 0 V 41 F 5 C*4B 8 \$PRFSA 21 11.04 V 12 0 V 0 V 41 F 5 C*44															
8 SPRFSA 21 11.04 V 12 9 SPRFSA 23 11.03 V 10 0 V 0 V 41.9 5.5 C*44															
9	\$PRFSA	23	11.03	V	10						0 V	0 \	/	41.9 F	5.5 C*49
10	SPRFSA	26	11.03	V	8						0 V	0 \	/	41.9 F	5.5 C*42
11	ŞPRFSA	28	11.04	V	-						0 V	0 \	/	41.9 F	5.5 C*4A
12	\$PRFSA	31	11.02	V	0						0 V	0 \	V	41.9 F	5.5 C*47
13	SPRFSA	33	11.05	V	4						0 V	0 \	/	41.9 F	5.5 C*44
14	ŞPRFSA	36	11.03	V	2					Series1	o v	0 \	/	41.9 F	5.5 C*41
15	SPRESA	38	11.04	V	0						0 V	0 \		41.9 F	5.5 C*4C
16	SPRESA	40	11.04	V	730	P (2) (2) -					0 V	0 \		42.7 F	6 C*43
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18	SPRESA CODECA	40	11.04	V		1 - 10 12	97 8 8 7 6 9 6 8 8 8 7 6 9	98 98 98	C C m Serie	s1		0 1	,	42.7 F	6 C*41
19	SPRESA CODECA	48	11.03	V			H .	1 1 1 2 2	138 145(0 V	0 1	,	42.7 F	6 C*46
20	SPRESA CODECA	50	11.08	V								0 1	/	42.7 F	6 C*4A
21	CODES A	55	11.07	v								0 1	/	42.7 5	6 C*45
22	ODDES A	55	11.00	V								0 1	/	42.7 F	6 C*42
25	CODES A	57	11.07	V								0 1	/	42.7 F	6 C*43
24	SDRESA	62	11.07	V iv	0.05 V	208 mA	28 mA	0.03 V	0.03 V		0 V	0		42.7 F	6.5 C*4A
26	SPRESA	65	11.07	v i	0.05 V	200 mA	20 mA	0.02 V	0.03 V		0 V	0 \	/	43.7 F	6.5 C*41
27	SPRESA	67	11.00	v i	0.05 V	208 mA	28 mA	0.03 V	0.03 V		0 V	0 \	/	43.7 F	6.5 C*4E
28	SPRESA	69	11.07	v i	0.05 V	220 mA	28 mA	0.03 V	0.03 V		0 V	0 \	/	43.7 F	6.5 C*4F
29	SPRESA	72	11.06	v i	0.05 V	228 mA	28 mA	0.03 V	0.03 V		0 V	0 \	/	43.7 F	6.5 C*48
30	SPRESA	74	11.00	v	0.05 V	212 mA	28 mA	0.03 V	0.02 V		0 V	0 \		43.7 F	6.5 C*47
31	SPRESA	77	11.08	V	0.05 V	212 mA	28 mA	0.03 V	0.03 V		0 V	0 \	V	43.7 F	6.5 C*4A
32	\$PRFSA	79	11.06	v	0.05 V	232 mA	28 mA	0.03 V	0.03 V		0 V	0 \	/	43.7 F	6.5 C*48
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3	SPRESA	9	11.05 V	0.0	5 2		28 m	Δ	0.03 \		0.02 V		0.1	,	0	v	41 6		5	C*7E
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6	\$PRFSA	16	11.05 V	0.0	5		28 m	A	0.03 \	/	0.02 V		0 1	/	0	v	41 F		5	C*43
7	\$PRFSA	19	11.05 V	0.0	5	3-D Line		A	0.03 \	/	0.02 V		0	/	0	v	41 F		5	C*48
8	\$PRFSA	21	11.04 V	0.0	5 alla All o	Display each row	or column of data	A	0.03 \	/	0.03 V		0 1	v	0	v	41 F		5	C*44
9	\$PRFSA	23	11.03 V	0.0	5 V	as a 3-D ribbon or	n three axes.	A	0.02 \	/	0.02 V		0 \	/	0	v	41.9 F		5.5	C*49
10	\$PRFSA	26	11.03 V	0.0	5 V	328 mA	28 m	hΑ	0.02 \	/	0.02 V		0	/	0	v	41.9 F		5.5	C*42
1	\$PRFSA	28	11.04 V	0.0	5 V	292 mA	28 m	hΑ	0.03 \	/	0.02 V		0 1	v	0	v	41.9 F		5.5	C*4A
13	\$PRFSA	31	11.02 V	0.0	5 V	308 mA	28 m	hΑ	0.03 \	/	0.03 V		0	/	0	v	41.9 F	-	5.5	C*47
13	\$PRFSA	33	11.05 V	0.0	5 V	268 mA	28 m	hΑ	0.03 \	/	0.02 V		0	v	0	v	41.9 F		5.5	C*44
14	\$PRFSA	36	11.03 V	0.0	5 V	304 mA	24 m	hΑ	0.03 \	/	0.03 V		0	/	0	v	41.9 F	-	5.5	C*41
13	\$PRFSA	38	11.04 V	0.0	5 V	284 mA	28 m	ιA	0.03 \	/	0.02 V		0	/	0	V	41.9 F	-	5.5	C*4C
10	\$PRFSA	40	11.04 V	0.0	5 V	260 mA	28 m	ıΑ	0.03 \	/	0.03 V		0	/	0	v	42.7 F		6	C*43
1	\$PRFSA	43	11.04 V	0.0	5 V	280 mA	28 m	hΑ	0.02 \	/	0.02 V		0	v	0	v	42.7 F		6	C*4E
18	\$PRFSA	45	11.04 V	0.0	5 V	288 mA	28 m	hΑ	0.03 \	/	0.02 V		0	/	0	v	42.7 F	-	6	C*41
19	\$PRFSA	48	11.03 V	0.0	5 V	284 mA	28 m	hΑ	0.03 \	/	0.03 V		0	/	0	v	42.7 F		6	C*46
20	SPRFSA	50	11.08 V	0.0	5 V	212 mA	28 m	hΑ	0.03 \	/	0.02 V		0 \	V	0	v	42.7 F		6	C*4A
2:	SPRFSA	53	11.07 V	0.0	5 V	220 mA	28 m	1A	0.03 \	/	0.03 V		0	/	0	V	42.7 F		6	C*46
2.	SPRFSA	55	11.08 V	0.0	5 V	220 mA	28 m	1A	0.03 \		0.03 V		0	/	0	V	42.7 F		6	C*4F
2	SPRESA	57	11.07 V	0.0	5 V	220 mA	28 m	1A	0.03 \	/	0.02 V		0	V	0	V	42.7 F	-	6	C*43
24	SPRESA	60	11.07 V	0.0	5 V	212 mA	28 m	1A	0.03 \		0.03 V		0	V	0	V	42.7 F		6	C*4/
2	SPRFSA	62	11.07 V	0.0	5 V	208 mA	28 m	1A	0.03 \	,	0.03 V		0	v ,	0	v	43.7 F		6.5	C*4A
20	SPRESA CODESA	65	11.08 V	0.0	5 V	228 mA	28 m	IA .	0.02 \	,	0.03 V		0	v ,	0	v	43.7 1	-	6.5	C*41
2	SPRESA	6/	11.07 V	0.0	5 V	208 mA	28 m		0.03 \	,	0.03 V		0	v ,	0	v	43.7 1		6.5	CT4F
20	CODESA	59	11.07 V	0.0	5 V	224 mA	28 m		0.03 \	,	0.03 V		0	v ,	0	v	43.71		6.5	C*4P
2	CODECA	72	11.00 V	0.0	5 V	228 mA	28 11	14	0.03 \	,	0.03 V		0	v 1	0	v	43.7 1		6.5	C 40 C*47
21	SDRESA	74	11.07 V	0.0	5 V	212 mA	20 11	14	0.03 1	,	0.02 V		0.1	• /	0	v	45.7 1		6.5	C*40
2	SPRESA	70	11.06 V	0.0	5 V	232 mA	20 11	Δ	0.03 1	,	0.03 V		0.1	,	0	v	43.7 0		6.5	C*48
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 | 2 | 8 mA | 0.03 | v | 0.02 V
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| 10 \$P
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32 | on on three
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2 | 8 mA | 0.02 | v | 0.02 V
 | , | | 0 V | 0 | v | 41.9 | F
 | 5.5 C*42 | |
| 11 \$P
 | RFSA | 28 | 11.04 V
 | 0.05 | V | 29 | 92 mA
 | 2 | 8 mA | 0.03 | v | 0.02 V
 | 1 | | 0 V | 0 | V | 41.9 | F
 | 5.5 C*4A | |
| 12 \$P
 | RFSA | 31 | 11.02 V
 | 0.05 | V
V | 30 | 08 mA
 | 2 | 8 mA
8 mA | 0.03 | V | 0.03 V
 | /
/ | | 0 V | 0 | V | 41.9 | F
 | 5.5 C*47 | -1 |
| 14 \$P
 | RFSA | 36 | 11.03 V
 | 0.05 | v | 30 | 04 mA
 | 2 | 4 mA | 0.03 | v | 0.02 V
 | , | | 0 V | 0 | v | 41.9 | F
 | 5.5 C*41 | - |
| 15 \$P
 | RFSA | 38 | 11.04 V
 | 0.05 | v | 28 | 84 mA
 | 2 | 8 mA | 0.03 | v | 0.02 V
 | 1 | | 0 V | 0 | v | 41.9 | F
 | 5.5 C*4C | |
| 16 \$P
 | RFSA | 40 | 11.04 V
 | 0.05 | V | 26 | 50 mA
 | 2 | 8 mA | 0.03 | V | 0.03 V
 | ' | | 0 V | 0 | V | 42.7 | F
 | 6 C*43 | - |
| 17 SP
 | RESA | 43 | 11.04 V
11.04 V
 | 0.05 | v
v | 28 | 30 mA
88 mA
 | 2 | 8 mA
8 mA | 0.02 | V
V | 0.02 V
 | , | | 0 V
0 V | 0 | V
V | 42.7 | F
 | 6 C*4E | -1 |
| 19 \$P
 | RFSA | 48 | 11.03 V
 | 0.05 | v | 28 | 34 mA
 | 2 | 8 mA | 0.03 | v | 0.03 V
 | / | | 0 V | 0 | v | 42.7 | F
 | 6 C*46 | |
| 20 \$P
 | RFSA | 50 | 11.08 V
 | 0.05 | v | 21 | l2 mA
 | 2 | 8 mA | 0.03 | v | 0.02 V
 | 1 | | 0 V | 0 | V | 42.7 | F
 | 6 C*4A | |
| 21 \$P
 | RFSA | 53 | 11.07 V
 | 0.05 | V | 22 | 20 mA
 | 2 | 8 mA | 0.03 | V | 0.03 V
 | , | | 0 V | 0 | V | 42.7 | F
 | 6 C*46 | -1 |
| 22 SP
23 SP
 | RESA | 57 | 11.08 V
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20 mA
 | 2 | 8 mA
8 mA | 0.03 | v | 0.03 V
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0 V | 0 | v | 42.7 | F
 | 6 C*43 | - |
| 24 \$P
 | RFSA | 60 | 11.07 V
 | 0.05 | v | 21 | L2 mA
 | 2 | 8 mA | 0.03 | v | 0.03 V
 | ' | | 0 V | 0 | v | 42.7 | F
 | 6 C*47 | |
| 25 \$P
 | RFSA | 62 | 11.07 V
 | 0.05 | V | 20 | 08 mA
 | 2 | 8 mA | 0.03 | V | 0.03 V
 | 1 | | 0 V | 0 | V | 43.7 | F
 | 6.5 C*4A | |
| 26 \$P
 | RFSA | 65 | 11.08 V
 | 0.05 | V
V | 22 | 28 mA
 | 2 | 8 mA
8 mA | 0.02 | V | 0.03 V
 | /
/ | | 0 V | 0 | V | 43.7 | F
 | 6.5 C*41 | -1 |
| 27 \$P
 | RFSA | 69 | 11.07 V
 | 0.05 | v | 20 | 24 mA
 | 2 | 8 mA | 0.03 | v | 0.03 V
 | , | | 0 V | 0 | v | 43.7 | F
 | 6.5 C*4F | 1 |
| 29 \$P
 | RFSA | 72 | 11.06 V
 | 0.05 | v | 22 | 28 mA
 | 2 | 8 mA | 0.03 | v | 0.03 V
 | 1 | | 0 V | 0 | v | 43.7 | F
 | 6.5 C*48 | |
| 30 \$P
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1610	\$PRFSA	5512	9.51 V		3.17 V		260	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 0	C*48
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1614	\$PRFSA	5526	9.52 V		3.17 V		196	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 0	C*46
1615	\$PRFSA	5529	9.51 V		3.17 V		236	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 0	C*4E
1616	\$PRFSA	5533	9.52 V		3.17 V		220	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 0	C*41
1617	\$PRFSA	5536	9.52 V		3.17 V		180	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	C*40
1618	\$PRFSA	5539	9.52 V		3.17 V		196	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	C*48
1619	\$PRFSA	5543	9.5 V		3.17 V		196	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 0	C*47
1620	\$PRFSA	5546	9.51 V		3.17 V		196	mA	36	mA	0.04 V		0.04 V		0	/	(0 V	86.8	F	30.5 0	C*4E
1621	\$PRFSA	5549	9.51 V		3.17 V		248	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 0	C*4C
1622	\$PRFSA	5553	9.53 V		3.17 V		196	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 0	2*48
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1602 \$PR	FSA 548	9.52 V	3.17 V	204 mA	36 r	mA 0.04 V	0.04 \	0 V	0 V	86 F	:	30 C ^a	*46
1603 \$PR	FSA 548	9.52 V	3.17 V	212 mA	. 36 r	mA 0.04 V	0.04 \	(0 V	0 V	86 F	4	30 C*	*4C
1604 \$PR	FSA 549	9.52 V	3.17 V	188 mA	. 36 r	mA 0.04 V	0.04 \	/ 0 V	0 V	86 F	:	30 C*	*47
1605 \$PR	FSA 549	9.53 V	3.17 V	192 mA	36 r	mA 0.04 V	0.04 \	/ 0 V	0 V	86.8 F	4	30.5 C*	*47
1606 \$PR	FSA 549	9.52 V	3.17 V	268 mA	36 r	nA 0.04 V	0.04 \	/ 0 V	0 V	86.8 F	÷;	30.5 C*	*4C
1607 \$PR	FSA 550	9.52 V	3.17 V	204 mA	36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	2	30 C1	*48
1608 \$PR	FSA 550	9.49 V	3.17 V	200 mA	. 36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	2	30 C ⁴	*41
1609 \$PR	FSA 550	9.52 V	3.17 V	516 mA	. 36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	2	30 C*	*46
1610 \$PR	FSA 551	9.51 V	3.17 V	260 mA	. 36 r	mA 0.04 V	0.04 \	0 V	0 V	86 F	£	30 C*	*48
1611 \$PR	FSA 551	9.53 V	3.17 V	180 mA	36 r	mA 0.04 V	0.04 \	0 V	0 V	86.8 F	£	30.5 C*	*4D
1612 \$PR	FSA 551	9.52 V	3.17 V	192 mA	36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	2	30 C1	*4E
1613 \$PR	FSA 552	9.51 V	3.17 V	220 mA	36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	-	30 C1	*4F
1614 \$PR	FSA 552	i 9.52 V	3.17 V	196 mA	. 36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	2	30 C ⁴	*46
1615 \$PR	FSA 552	9.51 V	3.17 V	236 mA	. 36 r	mA 0.04 V	0.04 \	0 V	0 V	86.8 F	4	30.5 C	*4E
1616 \$PR	FSA 553	9.52 V	3.17 V	220 mA	36 r	mA 0.04 V	0.04 \	0 V	0 V	86.8 F	2	30.5 C*	*41
1617 \$PR	FSA 553	9.52 V	3.17 V	180 mA	36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	-	30 C1	*40
1618 SPR	FSA 553	9.52 V	3.17 V	196 mA	36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F		30 C'	*48
1619 SPR	FSA 554	9.5 V	3.17 V	196 mA	. 36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F		30 C ³	*47
1620 ŞPR	FSA 554	9.51 V	3.17 V	196 mA	. 36 r	nA 0.04 V	0.04 \	0 V	0 V	86.8 F		30.5 C*	*4E
1621 ŞPR	FSA 554	9.51 V	3.17 V	248 mA	. 36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F		30 C*	*4C
1622 \$PR	FSA 555	9.53 V	3.17 V	196 mA	. 36 r	nA 0.04 V	0.04 \	0 V	0 V	86.8 F		30.5 C	*48
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