Innovati's Gamepad PS

PS2 Gamepad Control Module

Version: V1.0



Product overview:

Innovati's GamepadPS module provides simple settings and position obtaining commands with 12 buttons, enabling the user to plan his/her desired operating modes. By connecting cmdBUS and BASIC Commander, you can use simple commands to establish communication with the PS2 gamepad to obtain the button information and create dedicated application commands.

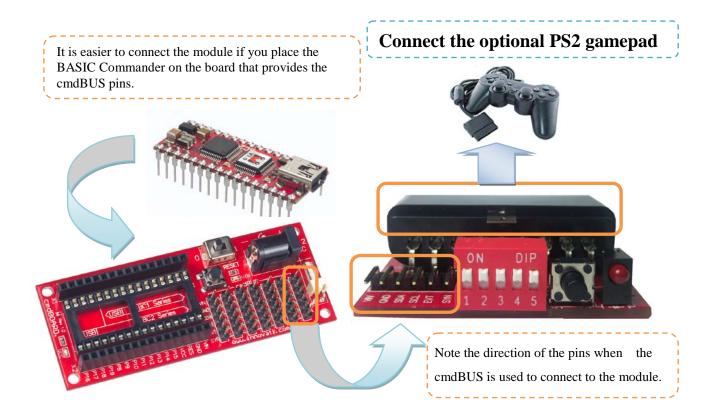
Applications:

- > Connect a robot and set up the buttons for advanced and movement control purposes.
- > Operate various test tools and machines.
- > Control a variety of remote control cars and aircraft when used with the wireless PS2 gamepad.
- Control a variety of application kits by Innovati, Inc.

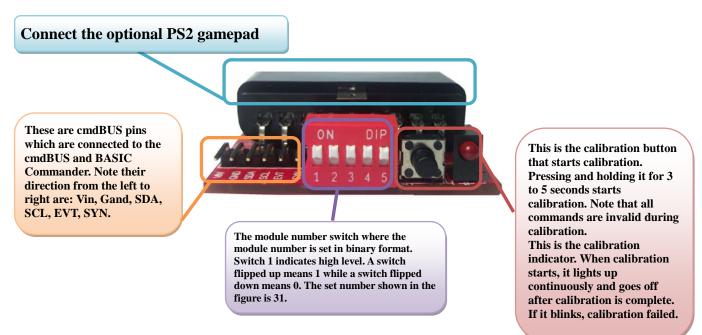
Features:

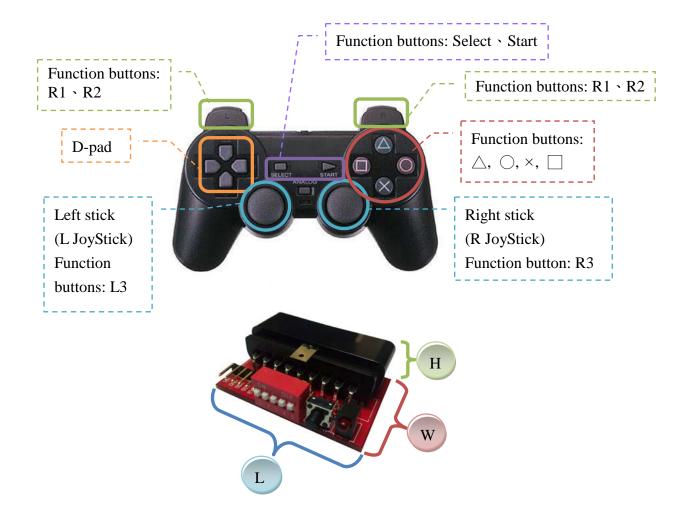
- It is easy to set. Various applications can be implemented with the dedicated commands simply by connecting cmdBUS to the BASIC Commander.
- > The sticks can be set for analogue return and 4-way or 8-way stick position return.
- ➤ The origin of the stick can be freely set to a variable between 0 and 10% to avoid jitter.
- > The D-pad can be set for 4-way or 8-way stick position return.
- > There are 12 function buttons that can be controlled separately or together.
- Calibration is provided with a calibration button. Operation can be interrupted at any time to perform calibration on the stick.
- Customizable button functions, including the time at which the button continuous trigger starts or the continuous trigger rate, can be set via commands.
- > You can enable the lock feature for the analogue stick to avoid accidental press.
- > Customizable gamepad vibration strength and duration.

Connection: Flip ID switch to the number to be set and connect the cmdBUS to the corresponding pins on the BASIC Commander. You can perform operations via the BASIC Commander after a PS2 gamepad is connected.



Product specifications :





L * W * H: 47 * 31* 16 (mm)

Operating notes:

Module operating temperature $\,$ -40 $^\circ\!\mathrm{C}$ ~ 123.8 $^\circ\!\mathrm{C}$

Module storage temperature $-40 \degree C \sim 125\degree C$

The module is suitable for the use with the genuine PS2 gamepad. The use of the aftermarket PS2 gamepad is not guaranteed.

How to perform calibration:

- 1: Press and hold the calibration button for a specific period of time (or via software) to enter Calibration mode. The calibration indicator lights up continuously.
- 2: Push the stick you want to calibrate up all the way and turn it full two turns to get maximum and minimum values of the XY axes.
- 3: Finally, center the stick and wait for 3 second to make the stick establish the center of the XY axes.
- 4: Press the function buttons $(\triangle, \bigcirc, \times, \bigcirc)$ to finish calibration. The calibration indicator goes off.
- X If the calibration indicator blinks, calibration failed. Perform calibration again.

If you accidentally enter Calibration mode, pressing the calibration button again exits this mode.

Command Table:

The following command table shows various commands specifically designed to control the GamepadPS module where the names and parameters of the required commands are shown in bold type or in bold and italic type. Do not change the text in bold type and fill in the appropriate parameters to replace the text in bold and italic type. Note that text is not case-sensitive for innoBASIC Workshop.

Before running GamepadPS commands, define the corresponding parameters and number at the beginning of your program.

Command format	Command function		
Related gamepad calibration commands			
	Start Calibration mode for the left stick.		
	After this command is executed, the stick enters		
	Calibration mode and the calibration LED		
	continuously lights up. At this time, push it up all		
	the way and turn it full two turns to get		
LStickCalibration()	maximum and minimum values of the XY axes.		
	Center the stick and wait for 3 second to make		
	the stick establish the center of the XY axes.		
	Finally press the function buttons to exit. The		
	LED goes off and the calibration is complete.		
	*		
	If the calibration LED blinks, calibration failed.		
	Function buttons: \triangle , \bigcirc , \leftthreetimes , \Box		
	Start Calibration mode for the right stick.		
	After this command is executed, the stick enters		
	Calibration mode and the calibration LED		
	continuously lights up. At this time, push it up all		
	the way and turn it full two turns to get		
RStickCalibration()	maximum and minimum values of the XY axes.		
	Center the stick and wait for 3 second to make		
	the stick establish the center of the XY axes.		
	Finally press the function buttons to exit. The		
	LED goes off and the calibration is complete.		
	*		
	If the calibration LED blinks, calibration failed.		
	Function buttons: \triangle , \bigcirc , \leftthreetimes , \Box		

For example: Peripheral ModuleName As GamepadPS @ ModuleID

	Simultaneously start calibration mode for the left			
	and right sticks.			
	After this command executed, the sticks enter			
	Calibration mode and the calibration LED			
	continuously lights up. At this time, push them			
	up all the way and turn them full two turns to get			
StickCalibration()	maximum and minimum values of the XY axes.			
	Center the sticks and wait for 3 second to make			
	the sticks establish the center of the XY axes.			
	Finally press the function buttons to exit. The			
	LED goes off and the calibration is complete.			
	*			
	If the calibration LED blinks, calibration failed.			
	Function buttons: \triangle , \bigcirc , \leftthreetimes , \Box			
	Set the calibration value of the X axis of the left			
	stick. Three Byte parameters are required which			
	are: <i>LxMin</i> , which indicates the minimum stick			
	calibration value; <i>LxCen</i> , which indicates the			
SetCalibrationLX(<i>LxMin</i> , <i>LxCen</i> , <i>LxMax</i>)	center point; and LxMax, which indicates the			
	maximum stick calibration value.			
	X Note the setting sequence during the manual			
	settings.			
	Enter an integer value between 0~255.			
	Set the calibration value of the Y axis of the left			
	stick. Three Byte parameters are required which			
	are: LyMin, which indicates the minimum stick			
	calibration value; LyCen, which indicates the			
SetCalibrationLY(<i>LyMin</i> , <i>LyCen</i> , <i>LyMax</i>)	center point; and LyMax, which indicates the			
	maximum stick calibration value.			
	* Note the setting sequence during the manual			
	settings.			
	Enter an integer value between 0~255.			
	Set the calibration value of the X axis of the			
	right stick. Three Byte parameters are required			
	which are: <i>RxMin</i> , which indicates the minimum			
	stick calibration value; <i>RxCen</i> , which indicates			
SetCalibrationRX(<i>RxMin</i> , <i>RxCen</i> , <i>RxMax</i>)	the center point; and <i>RxMax</i> , which indicates the			
	maximum stick calibration value.			
	Note the setting sequence during the manual			
	settings.			

	Enter an integer value between 0~255.
	Set the calibration value of the Y axis of the
	right stick.
	Three Byte parameters are required which are:
	RyMin , which indicates the minimum stick
SetCalibrationRY(<i>RyMin</i> , <i>RyCen</i> , <i>RyMax</i>)	calibration value; RyCen , which indicates the
	center point; and RyMax , which indicates the
	maximum stick calibration value.
	X Note the setting sequence during the manual
	settings.
	Enter an integer value between 0~255.
	Get the calibration value of the X axis of the left
	stick.
	The minimum value is stored in <i>LxMin</i> , the
GetCalibrationLX(<i>LxMin</i> , <i>LxCen</i> , <i>LxMax</i>)	center point is stored in <i>LxCen</i> and the
	maximum value is stored in <i>LxMax</i> .
	The return value is an integer value between
	0~255.
	Get the calibration value of the Y axis of the left
	stick.
	The minimum value is stored in LyMin, the
GetCalibrationLY(LyMin,LyCen,LyMax)	center point is stored in LyCen, and the
	maximum value is stored in <i>LyMax</i> .
	The return value is an integer value between
	0~255.
	Get the calibration value of the X axis of the
	right stick.
	The minimum value is stored in RxMin , the
GetCalibrationRX(<i>RxMin</i> , <i>RxCen</i> , <i>RxMax</i>)	center point is stored in RxCen , and the
	maximum value is stored in <i>RxMax</i> .
	The return value is an integer value between
	0~255.
	Get the calibration value of the Y axis of the
	right stick.
	The minimum value is stored in RyMin , the
GetCalibrationRY(RyMin,RyCen,RyMax)	center point is stored in RyCen, and the
	maximum value is stored in <i>RyMax</i> .
	The return value is an integer value between
	0~255.

Related setting commands	
RestoreSettings()	 Running this command restores the settings to the factory defaults as the following shows: The range of all calibration values is set to: Min=0, Cen=128, Max=255 The range of the center point of the stick is set to: 5 % The limit range value of the stick is set to: 80 % Turn off the rapid fire feature. Set the resolution of the stick to: 128 Turn off all events Turn off the vibration feature.
SetLStickDeadZone(<i>DZx,DZy</i>)	 Set the range of the center point of the left stick. The range of the central zone of the stick is set by <i>DZx</i> and <i>DZy</i>, which define the central zone of the XY axes. The input is an integer value between 0~10 in percentage. When the stick is moved within the set zone, it is determined that it is at the center point.
SetRStickDeadZone(<i>DZx,DZy</i>)	 Set the range of the center point of the right stick. The range of the central zone of the stick is set by <i>DZx</i> and <i>DZy</i>, which define the central zone of the XY axes. The input is an integer value between 0~10 in percentage. When the stick is moved within the set zone, it is determined that it is at the center point.
GetLStickDeadZone(<i>DZx</i> , <i>DZy</i>)	Get the setting of the central range of the left stick. The settings of the XY axes are stored in DZx and DZy respectively. The return value is an integer between 0~10 in percentage.
GetRStickDeadZone(<i>DZx,DZy</i>)	Get the setting of the central range of the right stick. The settings of the XY axes are stored in DZx and DZy respectively. The return value is an integer between $0~10$ in percentage.

	Sat the limit range value of the left sticl-
	Set the limit range value of the left stick .
	SATx and SATy are used to set the limit range
	value of the XY axes. The input is an integer
	value between 60~100 in percentage.
SetLStickSaturation(SATx,SATy)	After the command is executed, only the
	maximum value or minimum value will be
	returned, regardless whether positive or negative.
	For the set scale value, only the division
	calculation is performed between the maximum
	value and minimum value.
	Set the limit range value of the right stick .
	SATx and SATy are used to set the limit range
	value of the XY axes. The input is an integer
	value between 60~100 in percentage.
$\mathbf{C} = \mathbf{A} \mathbf{D} \mathbf{C} \mathbf{A}^{\dagger} = \mathbf{L} \mathbf{C} = \mathbf{A}^{\dagger} = \mathbf{C} \mathbf{A}^{\dagger} = \mathbf{C} \mathbf{A}^{\dagger} \mathbf{T} \mathbf{C} \mathbf{A}^{\dagger} \mathbf{T} \mathbf{C}$	After the command is executed, only the
SetRStickSaturation(SATx,SATy)	maximum value or minimum value will be
	returned, regardless whether positive or negative.
	For the set scale value, only the division
	calculation is performed between the maximum
	value and minimum value.
	Get the limit range value of the left stick .
	The settings of the XY axes are stored in SATx
GetLStickSaturation(SATx,SATy)	and SATy respectively. The return value is an
	integer between 60~100 in percentage.
	Get the limit range value of the right stick .
GetRStickSaturation(SATx,SATy)	The settings of the XY axes are stored in SATx
GetAblickBaturation(SAT2,SATy)	and SATy respectively. The return value is an
	integer between 60~100 in percentage.
	Set the resolution of the left stick .
	RESx and RESy are used to set the resolutions
	of the XY axes respectively for the number of
	scales to be divided within the recognizable
	range.
	Set the scale to an integer between $0 \sim 128$.
SetLStickRes(<i>RESx</i> , <i>RESy</i>)	As 0 is also counted, setting 128 indicates that
	128 scales are divided from 0 to 127 positively
	or from 0 to -127 negatively. Note that while 0
	and 1 can also be input, the XY values gotten
	will be 0 after setting.

	Set the res	olution o	of the right stick	
	Set the resolution of the right stick . <i>RESx</i> and <i>RESy</i> are used to set the resolutions			
	of the XY axes respectively for the number of			
			1 V	
	scales to be divided within the recognizable range.			
SetRStickRes(<i>RESx</i> , <i>RESy</i>)	•	le to an	integer between 0~	128.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			ted, setting 128 in	
	128 scales are divided from 0 to 127 positively			
	or from 0 to -127 negatively. Note that while 0			
			input, the XY va	
	will be 0 at		-	indes gotten
			setting of the <b>left s</b>	tick
			XY axes are stor	
GetLStickRes(RESx,RESy)	-		ively. The return	
		-	128 in percentage.	varae is all
			setting of the <b>right</b>	stick.
			XY axes are stor	
GetRStickRes(RESx,RESy)	_		ively. The return	
		-	128 in percentage.	
	-		nput is enabled or	
	Enable = 1, Disable = $0$			
		<b>D</b> .4	Corresponding	<b>D</b> · 1
		Bit	huitten	Decimal
			button	
		0		1
		0 1		1 2
			Δ	
		1		2
		1 2		2 4
	Key_ID	1 2 3		2 4 8
SetKeyRepeatFunc( <i>Key_ID</i> )	Key_ID	1 2 3 4	△ ○ × □ L1	2 4 8 16
SetKeyRepeatFunc( <i>Key_ID</i> )	Key_ID	1 2 3 4 5	△ ○ × □ L1 R1	2 4 8 16 32
SetKeyRepeatFunc( <i>Key_ID</i> )	Key_ID	1 2 3 4 5 6	△ ○ × □ L1 R1 L2	2 4 8 16 32 64
SetKeyRepeatFunc( <i>Key_ID</i> )	Key_ID	1 2 3 4 5 6 7	△ ○ × □ L1 R1 L2 R2	2 4 8 16 32 64 128
SetKeyRepeatFunc( <i>Key_ID</i> )	Key_ID	1 2 3 4 5 6 7 8	△ ○ × □ L1 R1 L2 R2 Select	2 4 8 16 32 64 128 256
SetKeyRepeatFunc( <i>Key_ID</i> )	Key_ID	1 2 3 4 5 6 7 8 9	△ ○ × □ L1 R1 L2 R2 Select Start	2 4 8 16 32 64 128 256 512
SetKeyRepeatFunc( <i>Key_ID</i> )	Key_ID	1 2 3 4 5 6 7 8 9 10	△         ○         ×         □         L1         R1         L2         R2         Select         Start         L3	2 4 8 16 32 64 128 256 512 1024
SetKeyRepeatFunc( <i>Key_ID</i> )		1 2 3 4 5 6 7 8 9 10 11	△         ○         ×         □         L1         R1         L2         R2         Select         Start         L3	2 4 8 16 32 64 128 256 512 1024 2048
SetKeyRepeatFunc( <i>Key_ID</i> )		1 2 3 4 5 6 7 8 9 10 11 11	△ ○ × □ L1 R1 L2 R2 Select Start L3 R3 • enable it for △,	2 4 8 16 32 64 128 256 512 1024 2048
SetKeyRepeatFunc(Key_ID)	EX: If you Key_ID ca	1 2 3 4 5 6 7 8 9 10 11 11 want to an be set	△ ○ × □ L1 R1 L2 R2 Select Start L3 R3 • enable it for △,	2 4 8 16 32 64 128 256 512 1024 2048

	Get the inf	ormatio	n about whether rap	oid input is	
	enabled or not.				
	Enable = 1, Disable = $0$				
		Bit	Corresponding button	Decimal	
		0		1	
		1	0	2	
		2	×	4	
GetKeyRepeatFunc(Key_ID)		3		8	
	Key_ID	4	L1	16	
	Key_ID	5	<b>R</b> 1	32	
		6	L2	64	
		7	R2	128	
		8	Select	256	
		9	Start	512	
		10	L3	1024	
		11	R3	2048	
	Time is used to configure. You can enter an integer ranging between 0~255 in 10 ms.Get the information about the amount of time during which rapid input is enabled.			of time	
GetRepeatTime( <i>Time</i> )	The return value is stored in <i>Time</i> . The return value is an integer ranging between 0~255 in 10 ms.				
SetRepeatRate( <i>Rate</i> )	Set the rate at which the rapid input is performed. <i>Rate</i> is used to configure. You can enter an integer ranging between 0~255 in 10 ms.				
GetRepeatRate( <i>Rate</i> )	Get the information about the rate at which the rapid input is performed. The return value is stored in <i>Rate</i> . The return value is an integer ranging between 0~255 in 10 ms.				

Related application commands	
GetLXYPos(POSx,POSy)	Get the coordinate value of the <b>left stick</b> . Return the XY coordinates which are stored in <i>POSx and POSy</i> respectively. The default is -127~+127.
GetRXYPos(POSx,POSy)	Get the coordinate value of the <b>right stick</b> . Return the XY coordinates which are stored in <i>POSx and POSy</i> respectively. The default is -127~+127.
GetL4WayValue( <i>Dir</i> )	<ul> <li>Four ways are used to indicate direction. Get the position of the left stick.</li> <li>The return value is stored in <i>Dir</i> and indicates direction. The return values are only the numbers 0~4 which are:</li> <li>0: Stick at center point 1: Stick to the right→</li> <li>2: Stick downward↓ 3: Stick to the left←</li> <li>4: Stick upward↑</li> </ul>
GetR4WayValue( <i>Dir</i> )	<ul> <li>Four ways are used to indicate direction. Get the position of the right stick.</li> <li>The return value is stored in <i>Dir</i> and indicates direction. The return values are only the numbers 0~4 which are:</li> <li>0: Stick at center point 1: Stick to the right→</li> <li>2: Stick downward↓ 3: Stick to the left←</li> </ul>
GetL8WayValue(Dir)	4: Stick upward↑         Eight ways are used to indicate direction. Get the position of the left stick.         The return value is stored in <i>Dir</i> and indicates direction. The return values are only the numbers 0~8 which are:         0: Stick at center point         1: Stick to the right→         2: Stick to the downright \         3: Stick downward↓         4: Stick to the left←         6: Stick to the upleft \         7: Stick upward↑         8: Stick to the upright /

	Fight way	(c. are 1160	d to indicate direct	ion Get the	
GetR8WayValue( <i>Dir</i> )	Eight ways are used to indicate direction. Get the				
	-	position of the <b>right stick</b> . The return value is stored in <i>Dir</i> and indicates			
			rn values are only t	he numbers	
	0~8 which				
	0: Stick a	t center	point		
	1: Stick to	o the rig	ht→		
	2: Stick to	o the dov	wnright 🔪		
	3: Stick d	ownwar	d↓		
	4: Stick to	o the dov	wnleft 🖌		
	5: Stick to				
	6: Stick to				
	7: Stick u	-			
		- ·	window 1		
	8: Stick to	o the up	ngnt/		
	The butto	n status g	gotten is stored in S	tatus	
	Enable = $1$	-	-		
			Corresponding		
		Bit	button	Decimal	
		0	$\triangle$	1	
		1	0	2	
		2	×	4	
		3		8	
Status = GetKeyStatus()	Status	4	L1	16	
		5	R1	32	
		6 7	L2 R2	64 128	
		8	Select	256	
		9	Start	512	
		10	L3	1024	
		11	R3	2048	
	<b>EX:</b> If Status = 3, it is enabled for $\triangle$ , $\bigcirc$ .				
	Get the D-pad status and return a value to				
	indicate direction.				
	The return value is stored in <i>Dir</i> . The return				
	values are only the numbers 0~4 which are:				
GetDir4Way( <i>Dir</i> )	0: None				
	1: Right $\rightarrow$				
	<b>1:</b> Kight $\rightarrow$ <b>2:</b> Down $\downarrow$				
	3: Left ←				
	<b>4: Up</b> ↑				

	Cat the D and status and return a value to
GetDir8Way( <i>Dir</i> )	Get the D-pad status and return a value to
	indicate direction.
	The return value is stored in <i>Dir</i> . The return
	values are only the numbers 0~8 which are:
	<b>0:</b> None <b>1:</b> Right $\rightarrow$
	<b>2:</b> Downright $\searrow$ <b>3:</b> Down $\downarrow$
	4: Downleft ∠ 5: Left←
	<b>6:</b> Upleft $\checkmark$ <b>7:</b> Up $\uparrow$
	8: Upright /
	Set the status of the analogue sticks.
	<i>Mode</i> is used to configure. You can enter a value
	between 0 and 3 as shown below:
	0: Turn off analogue sticks
	1: Enable analogue return for analogue sticks
	2: Lock analogue sticks and set them to
	analogue on
	3: Lock analogue sticks and set them to
	analogue off
SetAnalog( <i>Mode</i> )	i → Default: 1 (On)
	0 and 1 are Off Mode and Enable Mode
	respectively. After setting, the buttons on the
	stick can be used to switch between modes.
	2 and 3 are Lock Modes.
	After setting, the buttons on the stick cannot
	be used to switch between modes.
	Mode 0 and 1 cannot also be used to switch to
	normal mode. Keep this in mind during use.
	Enable the gamepad vibration feature. <i>Time</i> is
	used to configure. <i>Level</i> is used to set the
	vibration level.
	<i>Time</i> : An integer ranges between 0~255.
	0: Continues vibration until the StopVib
	command is given.
StartVib( <i>Time</i> , <i>Level</i> )	1 indicates 1 second with an increment of 100
	ms when one is added.
	<i>Level</i> : An integer ranges between 0~255.
	<i>Level</i> : An integer ranges between 0~255. 0: No vibration. The higher the number is, the
	0: No vibration. The higher the number is, the
StopVib()	0: No vibration. The higher the number is, the

	Get the gamepad vibration status.		
	The return values are stored in <i>Status</i> , <i>Time and</i>		
	<i>Level</i> respectively.		
	<i>Status</i> : Gamepad vibration status.		
	0: Vibration disabled.		
	1: Vibration enabled.		
GetVibStatus(Status, Time, Level)	<i>Time</i> : Remaining time of vibration.		
	0: Vibration status is 0 and vibration stoPS when		
	the StopVib command is given.		
	1: The remaining time is less than 1 second.		
	$2\sim255$ : Remaining 1+(Time-1)*100 ms		
	<i>Level</i> : Set the vibration level ranging between		
	0~255 之間。		
	Get the setting status of the analogue stick.		
	The return value is stored in <i>Mode</i> .		
GetAnalog( <i>Mode</i> )	The return value may be 0 or 1, where:		
GetAnalog( <i>noue</i> )	0: Disable		
	1: Enable (Whether it is locked is unknown.)		
	Get the connection status of the gamepad.		
	It is stored in <i>Status</i> .		
GetConnect(Status)	The return value may be 0 or 1, where:		
Geteomet(Suuus)	0: gamepad is not detected.		
	1: gamepad is properly connected.		
Related application event commands	1. guillepud is property connected.		
Related application event commands	When the stick is set to continuous refresh, it is		
	the fastest rate at which an EVENT is generated.		
SetStickRefreshRate( <i>Rate</i> )	<i>Rate</i> ranges between 1~255 in 10ms.		
SetSuckkenesiikate( <i>Nute</i> )	The values other than $1\sim255$ are invalid.		
	0 and 1 indicate 10ms.		
	Get the fastest rate at which EVENT is generated when the stick is set to continuous refresh.		
GetStickRefreshRate(Rate)			
	The return value is stored in <i>Rate</i> ranging between 1~255 in 10ms.		
	Enable <b>StickEvent of the left stick</b> .		
Enable StickEvent()	The SetStickRefreshRate command determines		
EnableLStickEvent()			
Dischlal StickEnstra()	the generation rate.		
DisableLStickEvetn()	Disable <b>StickEvent of the left stick</b> .		
FnablaDStickEvent()	Enable StickEvent of the right stick.		
EnableRStickEvent()	The <b>SetStickRefreshRate</b> command determines		
	the generation rate.		

DisableRStickEvetn()	Disable StickEvent of the right stick.
EnableL4WayEvent()	Enable 4WayEvent of the left stick.
DisableL4WayEvent()	Disable <b>4WayEvent of the left stick</b> .
EnableR4WayEvent()	Enable <b>4WayEvent of the right stick</b> .
DisableR4WayEvent()	Disable <b>4WayEvent of the right stick</b> .
EnableL8WayEvent()	Enable 8WayEvent of the left stick.
DisableL8WayEvent()	Disable 8WayEvent of the left stick.
EnableR8WayEvent()	Enable 8WayEvent of the left stick.
DisableR8WayEvent()	Disable 8WayEvent of the left stick.
EnableKeyPressedEvent()	Enable <b>KeyPressedEvent</b> .
DisableKeyPressedEvent()	Disable KeyPressedEvent.
EnableKeyRelesedEvent()	Enable <b>KeyRelesedEvent</b> .
DisableKeyRelesedEvent()	Disable KeyRelesedEvent.
EnableDir4WayEvent()	Enable <b>Dir4WayEvetn</b> .
DisableDir4WayEvent()	Disable Dir4WayEvetn.
EnableDir8WayEvent()	Enable <b>Dir8WayEvetn</b> .
DisableDir8WayEvent()	Disable Dir8WayEvetn.

Application events provided by module:

Event	Enable conditions
LStickEvent	The event is generated when the <b>left stick</b> starts movement.
	Return is performed based on the frequency set by <b>SetStickEvent</b> .
RStickEvent	The event is generated when the <b>right stick</b> starts movement.
	Return is performed based on the frequency set by <b>SetStickEvent</b> .
L4WayEvent	The event is generated when the <b>left stick changes its direction.</b>
	It is not related to SetStickEvent.
R4WayEvent	The event is generated when the <b>right stick changes its direction.</b>
	It is not related to SetStickEvent.
L8WayEvent	The event is generated when the <b>left stick changes its direction.</b>
	It is not related to SetStickEvent.
DQWowEvont	The event is generated when the <b>right stick changes its direction.</b>
R8WayEvent	It is not related to SetStickEvent.
	It is common to all buttons.
	When <b>RepeatKey</b> is disabled, press any button to generate the
KoyDrossodEyont	event.
KeyPressedEvent	When RepeatKey is enabled, press any button and the event is
	generated based on the time set by RepeatTime and the rate
	set by RepeatRate.
KowDoloogodEwo <del>rt</del>	It is common to all buttons.
KeyReleasedEvent	The event is generated when the action set by KeyRelese is

	detected.		
Dir4WayEvent	The event is generated when the D-pad status changes.		
Dir8WayEvent	The event is generated when the D-pad status changes.		
CalibrationEndEvent	t The event is generated when the calibration ends. Always Enable		
ConChangeEvent	The event is generated when it is determined that the gamepad is		
	connected or disconnected. Always Enable		

# Sample program:

Peripheral PS As GamePadPS @ 31	'Set the module number
Dim b4Dir As Byte	'Store the direction value gotten
Dim b8WayL,b8WayR As Byte	'Store the direction value of the stick gotten
Dim wStatus As Word	'Store the button status value gotten

### Sub Main()

PS.EnableKeyPressedEvent()	'Enable button pressed event			
PS.EnableKeyReleasedEvent()	'Enable button release event			
Debug '///// GamePadPS Demo ////	'''Terminal Window shows plan			
Debug CSRXY(1,2),"Direction:"				
Debug CSRXY(1,3),"RStick8Way:"				
Debug CSRXY(1,4),"LStick8Way:"				
Debug CSRXY(1,5),"GetKeyStatus:"	,			

#### Do

PS.GetDir4Way(b4Dir)	'Get the D-pad status by returning the 4-way directions
Debug CSRXY(11,2),b4Dir	'Display in Terminal Window (column 11 and row 2)
PS.GetR8WayValue(b8WayR)	'Get the right stick status by returning one of the 8-way directions
Debug CSRXY(12,3),b8WayR	'Display in Terminal Window (column 12 and row 3)
PS.GetL8WayValue(b8WayL)	'Get the right left status by returning one of the 8-way directions
Debug CSRXY(12,4),b8WayL	'Display in Terminal Window (column 12 and row 4)
Debug CSRXY(15,5),%BIN12 w	Status 'Display Loop in binary format in Terminal Window
	(column 15 and row 5)

### Loop

### End Sub

<pre>Event PS.KeyPressedEvent()</pre>	'Button pressed event		
wStatus = PS.GetKeyStatus	'Get the current button status and store it in wStatus		
End Event			
Event PS.KeyReleasedEvent()	'Button release event		
wStatus = PS.GetKeyStatus	'Get the current button status and store it in wStatus		
End Event			

# Appendix

Module Number Switch Table:

	0		8		16		24
	1		9		17		25
	2		10		18		26
43210	3		11		19		27
	4		12	4 3 2 1 0	20		28
	5		13	4 3 2 1 0	21		29
	6		14		22		30
	7	4 3 2 1 0	15	4 3 2 1 0	23	4 3 2 1 0	31