

Bring you

Into Future **Smart** *Life!*

SSE Products Tech Specs

(X10BUS / PLCBUS)

Shanghai Super Smart Electronics Co., Ltd.

Version. 2005.07.01

-----Profile-----

Your Total Solution for a Smart Future Life

Shanghai Super Smart Electronics Co., Ltd. is established since 2000 year, Sales Dept. lines in Shanghai; R&D Dept. and factory line in Tianjin City. And she is well known for manufacturing top-grade Home Automation products; including: Plug-in Modules、Wall Switches、Wireless Remotes、In-line Modules、Wall Scene Controllers、Audio Controller、troubleshooting series、Computer Controllers、Telephone Responder、Idea product (S-Cybie) etc. Recent one month, she also shows her new products to all over the world; they are “Touch-Screen Remote”, “Security Console”, and Micro series, and so on.

Every one in Shanghai Super Smart Electronics group all know that being a good supplier is more than just low prices; it means providing good service before, during, and after the sale. We will provide “Sincere” and “Strict” service to every distributor of us.

Business Type

- Exporter

- Manufacturer

Export Markets

- Worldwide

Capital

- US\$9,000,000.00

OEM Services Provided

- Yes

Selling Points

- Experienced R&D Department
- OEM Capability
- Reliability
- Total Solution Service(T.S.S.)

QC Responsibility

- in-house

No. of R and D Staff

- 12

Sales Volume Annual

- US\$3,200,000.00

No. of Engineers

- 10 to 19

No. of Total Staff

- 73

Year Established

- 2000

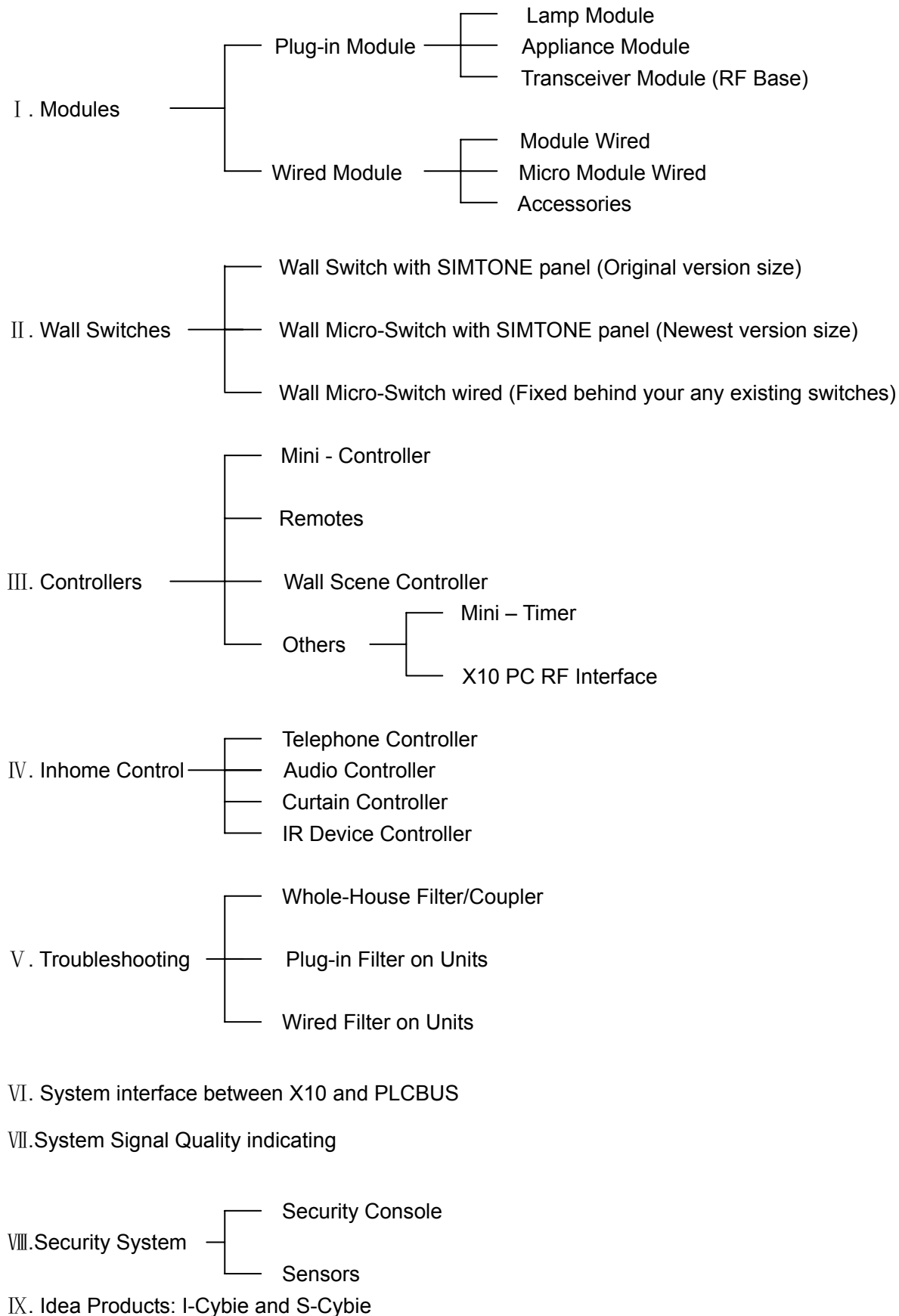
Product Range (X10/PLCBUS)

- Modules;
- Wall Switches;
- Controllers;
- In-home Control;
- Troubleshooting products;
- System Signal Quality indicating.
- Security System;
- Idea Products;

Safety/Quality Approvals

- CE

SSE Products Tree Diagram



Lamp Module (X10/PLCBUS):

KEY Features:

- * Two-Way Communications.
- * Light status feedback speed in 0.1 second
- * 64 Brightness level for Incandescent lamp
- * Soft start 0-9 seconds setup for Incandescent lamp
- * Highly Reliability, error rate in 1/10000
- * Super High anti-jamming capability
- * Code Set Electronically.
- * On/Off and dimmer control of incandescent lighting.
- * Available in a wide range of plug style (China, German, British, Australian ...).
- * Designed to operate with 230VAC 40W to 600W incandescent lamps (110VAC also can be provided).
- * Respond to "standard" PLCBUS that is: "all lights on" or "all units off" from any controller set to its house code regardless of unit code or alternatively individual unit control by "ON", "OFF", "Bright" and "Dim".

Technical information: "Appli" for "Appliances"

Model No.	PLC-P 2026 AU/G/UK	PLCBUS-P 2026 AU/G/UK
Product Pictures:		
Two-Way Communications:	No	Yes
Signal Speed:	60 bits/sec	200 bits/sec
Speed, commands/sec:	1 per sec	5 per sec
Reliability:	Very Poor 70%~80%	Very High > 99.9%
Central Controller Required:	Yes	No
Max address controlled:	256	64000
Load type:	Incandescent lamps only.	
Plug style:	China, Australia/NZ, Germany, UK	
Power:	600W / 2.5A	
Supply voltage:	230V +/- 10% 50Hz	
Ambient temperature:	- 10° C to + 50°C (operation)	
Compatibility:	Be compatible with X-10 System by a "PLCBUS/X-10 interface".	
Dimensions:	110 x 60 x 35mm without plug part.	

Appliance Module:

KEY Features:

- * Two-Way Communications.
- * Light status feedback speed in 0.1 second
- * Highly Reliability, error rate in 1/10000
- * Super High anti-jamming capability

- * Code Set Electronically.
- * On/Off function to control fluorescent lamp, appliances (No dimming).
- * Available in a wide range of plug style (China, German, British, Australian ...)
- * Designed to operate with 230VAC 800W - 2400W max loads (110VAC also can be provided).
- * Responds to "standard" X-10 that is: "all units off" from any controller set to its house code regardless of unit code or alternatively individual unit control by "ON" and "OFF".

Technical information:

Model No.	PLC-P 2027 AU/G/UK	PLCBUS-P 2027 AU/G/UK
Product Pictures:		
Two-Way Communications:	No	Yes
Signal Speed:	60 bits/sec	200 bits/sec
Speed, commands/sec:	1 per sec	5 per sec
Reliability:	Very Poor 70%~80%	Very High > 99.9%
Central Controller Required:	Yes	No
Max address controlled:	256	64000
Load type:	Fluorescent lamps and Appliances.	
Plug style:	China, Australia/NZ, Germany, UK	
Power:	2400W / 10A--	
Supply voltage:	230V +/- 10% 50Hz	
Ambient temperature:	- 10° C to + 50°C (operation)	
Responds "All Lights On" :	Original status is "No respond", but can be setup to respond "All Lights On" for Fluorescent lamps.	
Compatibility:	Be compatible with X-10 System by a "PLCBUS/X-10 interface".	
Dimensions:	110 x 60 x 35mm without plug part.	

Comparison Table PLCBUS Module vs. X10 Module:

PLCBUS Module	X10 Module (Europe)
• Reliability is high> 99.9% • Two-Way Status feedback • Control up to 64000 lamps/Appliances • Soft Start / Stop • Improved Casing • Remembers Dim Level for scene setting • ON/OFF button • Max 600W • Electronic Code Setting • Built-in Noise Filter • 4.5V X10 signal • Indicator LED	• Reliability is only 70%~80% • No Two-Way Status feedback • Max control only 256 lamps/Appliances • No Soft Start / Stop • Standard Casing • Does not Remembers Dim Level for scene setting • No ON/OFF button • Max 300W • Code wheels • No Built-in Noise Filter • 3.0V X10 signal • No indicator LED

Optional	
Status Request	No status request available

Transceiver Module (PLCBUS):

KEY Features:

- * Two-Way Communications.
- * Light status feedback speed in 0.1 second
- * Highly Reliability, error rate in 1/10000
- * Super High anti-jamming capability
- * Code Set Electronically.
- * Controls up to 64000 PLCBUS modules with Remote.
- * Built-in appliance switched outlet (800W/no dimming, Remote control only).
- * Choose between “Encrypt” and “Non-Encrypt”.
- * Let the Encrypt Remote disabled after it is lost.
- * Available in a wide range of plug style (China, German, British, Australian ...)
- * Compatible with all X-10 wireless remotes.

Remark: "Encrypt function: the encrypt IR signal from Encrypt Remote to Encrypt Transceiver Module is “exclusive”. Other common Transceiver Module will not respond its signal. Thus, it can prevent the interferences between you and your neighbors. And also when your Encrypt Remote is lost, you can delete the setup with it by setting on the Encrypt Transceiver Module. It can let your lost Remote disabled.

Technical information:

Model No.	PLC-T 4022AU/G/UK	PLC-T 4023AU/G/UK	PLCBUS-T 4022AU/G/UK	PLCBUS-T 4023AU/G/UK
Product Pictures:				
Encrypt:	No	Yes	No	Yes
Two-Way:	No	No	Yes	Yes
Signal Speed:	60 bits/sec	60 bits/sec	200 bits/sec	200 bits/sec
Speed, commands/sec:	1 per sec	1 per sec	5 per sec	5 per sec
Reliability:	Very Poor 70%~80%	Very Poor 70%~80%	Very High > 99.9%	Very High > 99.9%
Max address controlled:	256	256	64000	64000
Work with X10 Remote:	Yes	No	Yes	No
Load type/Power:	Appliances only / 800W Max			
Plug style:	China, Australia/NZ, Germany, UK			
Supply voltage:	230V +/- 10% 50Hz			
RF frequency:	433.92 MHz			

Transmitting intensity:	5 μ V 92dB
Ambient temperature:	- 10° C to + 50°C (operation)
Dimensions:	110 x 60 x 35mm without plug part.

In-line Module:

KEY Features:

- * Two-Way Communications.
- * Light status feedback speed in 0.1 second
- * 64 Brightness level for Incandescent lamp (Dimmer only)
- * Soft start 0-9 seconds setup for Incandescent lamp (Dimmer only)
- * Highly Reliability, error rate in 1/10000
- * Super High anti-jamming capability
- * Code Set Electronically.
- * On/Off control of load (No dimming for Fluor/Appliance, With Remote to realize Dim/Bright control).
- * Can be built-in, wired to the light it has to control.
- * Used with 2261E and 2262E, realize ON/OFF control by Manual.
- * Different Scenes up to 16 for Micro Modules only;
- * Be fixed behind your any existing switch.
- * Extreme small size (43.25x47mm and only 18.9 mm thick) for Micro Modules only.

Technical information: “Incand” for “Incandescent lamp”, “Fluor” for “Fluorescent light”, “Appli” for “Appliances”

1. The difference between X10 and PLCBUS products:

Model No.	PLC-R 2263/2264/2265/2266/2267/2268E	PLCBUS-R 2263/2264/2267/2268E
Product Pictures:		
Two-Way:	No	Yes
Signal Speed:	60 bits/sec	200 bits/sec
Speed, commands/sec:	1 per sec	5 per sec
Reliability:	Very Poor 70%~80%	Very High > 99.9%
Max address controlled:	256	64000

2. The sameness between X10 and PLCBUS products: (“PLC-R” and “PLCBUS-R”), product models in the following:

PLC-R 2263E / 2264E / 2265E / 2266E / 2267E / 2268E

PLCBUS-R 2263E / 2264E / 2267E / 2268E

Model No.	2263E	2264E	2265E	2266E	2267E	2268E
Power:	300W	400W in sum / each 300W mix	300W	400W in sum / each 300W mix, Load 1 > 60W	800W	800W x 2
Load type:	Incandescent	Incandescent	Incandescent	Incandescent	Fluor / Appli	Fluor / Appli
Control Load QTY:	One	Two	One	Two	One	Two
Scenes QTY:	Up to 16	Up to 16	Up to 16	Up to 16	Up to 16	Up to 16
Dimmable:	Yes	Yes	Yes	Yes	No	No
Two-wire Installation:	No	No	Yes	Yes	No	No
Built-in Filter:	Yes	No	Yes	No	Yes	No
"All Lights On" by set :	Yes	Yes	Yes	Yes	Fluor: Yes Appli: No	Fluor: Yes Appli: No
Supply voltage:	230V +/- 10% 50Hz					
Ambient temperature:	- 10° C to + 50°C (operation)					
Dimensions:	Extreme small size (43.25x47mm and only 18.9 mm thick)					

2261E/2262E:

KEY Features:

- * Should be used with Module/Micro Module Wired, realize Manual Control with switches.
- * Choosing different switch panel colors to fit for your mood.
- * Dimmer should be realized by Remote control.
- * Can not be used solely.

Technical information:

Model No.	2261E	2262E
Product Pictures:		
Control Load QTY:	One	Two
Supply voltage:	230V +/- 10% 50Hz / 60Hz (110V also be compatible)	
Load Type:	Incandescent lamp / Fluorescent light / Appliances	
Ambient temperature:	- 10° C to + 50°C (operation)	
Dimensions:	Switch Panel size: 86mm x 86mm Back part size: 45 x 45 x 46mm (L x W x H)	

Wall Switch:

KEY Features:

- * Two-Way Communications.
- * Light status feedback speed in 0.1 second.
- * 64 Brightness level for Incandescent lamp (Dimmer only).

- * Soft start 0-9 seconds setup for Incandescent lamp (Dimmer only).
- * Highly Reliability, error rate in 1/10000
- * Super High anti-jamming capability.
- * Code Set Electronically.
- * Local (manual) control of load
- * On/Off/Dim/Bright control of load (No dimming for Fluor/Appliance).
- * Conveniently, codes are electronically set and can be programmed in only 6 seconds without removing the switch.
- * Ability to control from remote location through computer or telephone interface.
- * Responds to the "All Lights ON and All Units OFF" commands.
- * Built in powerline noise filter.
- * Extreme back part small size (43.25x47mm and only 18.9 mm thick).
- * Choosing different switch panel colors to fit for your mood.

Technical information: "Incand" for "Incandescent lamp", "Fluor" for "Fluorescent light", "Appli" for "Appliances"

1. The difference between X10 and PLCBUS products:

Model No.	PLC-R 2220/2221/2222/2223/2224/2225E	PLCBUS-R 2220/2221/2224/2225E
Product Pictures:		Crystal panel switch, be ready till September.
Two-Way:	No	Yes
Signal Speed:	60 bits/sec	200 bits/sec
Speed, commands/sec:	1 per sec	5 per sec
Reliability:	Very Poor 70%~80%	Very High > 99.9%
Max Loads controlled:	256	64000

2. The sameness between X10 and PLCBUS products: ("PLC-R" and "PLCBUS-R"), product models in the following:

PLC-R 2220E / 2221E / 2222E / 2223E / 2224E / 2225E

PLCBUS-R 2220E / 2221E / 2224E / 2225E

Model No.	2220E	2221E	2222E	2223E	2224E	2225E
Power:	400W	400W total /	400W	400W total / Load 1 > 60W	800W	800W x 2
Load type:	Incandescent	Incandescent	Incandescent	Incandescent	Fluor / Appli	Fluor / Appli
Control Load QTY:	One	Two	One	Two	One	Two
Dimmable:	Yes	Yes	Yes	Yes	No	No
Two-wire Installation:	No	No	Yes	Yes	No	No
Built-in Filter:	Yes	No	Yes	No	Yes	No
"All Lights On" by set :	Yes	Yes	Yes	Yes	Fluor: Yes Appli: No	Fluor: Yes Appli: No
Supply voltage:	230V +/- 10% 50Hz					
Ambient temperature:	- 10° C to + 50°C (operation)					
Dimensions:	Switch Panel size: 86mm X 86mm Extreme back part small size (43.25x47mm and only 18.9 mm thick)					

Controllers: Mini-Controller

KEY Features:

- * Two-Way Communications.
- * Light status feedback speed in 0.1 second.
- * Highly Reliability, error rate in 1/10000
- * Super High anti-jamming capability.
- * Scene function work with Receiver Modules.
- * ON/OFF, Dim/Bright, All Lights On /All Units Off.
- * Transmit many commands continuously at a moment; the commands will not be lost.
- * Conveniently, plug in installation provides for a simple install, there is no need for any professional assistance.
- * Can be used to program wall controllers and any other receivers requiring electronic PLCBUS address programming.

Technical information:

Model No.	PLC-T 4034E	PLCBUS-T 4034E
Product Pictures:		
Two-Way Communications:	No	Yes
Signal Speed:	60 bits/sec	200 bits/sec
Speed, commands/sec:	1 per sec	5 per sec
Reliability:	Very Poor 70%~80%	Very High > 99.9%
Supply plug style:	2-pin Europe style	
Supply voltage:	230V +/- 10% 50Hz	
Backlight:	Yes	
Ambient temperature:	- 10° C to + 50°C (operation)	
Dimensions:	141 x 94mm and only 26 mm thick	

Remotes:

KEY Features:

- * Let you control up to 10/256 PLCBUS/X-10 modules
- * Encrypt Remote prevent the interferences between you and your neighbors.
- * Encrypt is in 65536 different codes, it is very difficult that two Remotes have the same one.
- * Turn on and off, bright and dim any X-10 module set to the same house code.
- * Sends wireless RF signals to the Transceiver or to any PLCBUS/X-10 wireless security system
- * Compatible with the full range of X-10 home automation

Technical information:

Model No.	PLC-RF 4059E	PLC-RF 4060E	PLC-RF 4072E	PLC-RF 4073E
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Product Pictures:				
Style:	Keypad	Keypad	Touch-Screen	Touch-Screen
Control Units:	Up to 4	Up to 4	Up to 256	Up to 256
LED/Backlight:	Indicator LED	Indicator LED	Backlight	Backlight
Control IR devices:	No	No	Up to 4 IR devices	Up to 4 IR devices
Scene function:	No	No	4 Scenes (up to 16 units for each)	4 Scenes (up to 16 units for each)
Encrypt:	No	Yes	No	Yes
Beeps Indicating:	No	No	Yes	Yes
“Arm” / “Disarm” Key:	No	No	Yes	Yes
“Panic” button:	No	No	Yes	Yes
Use with Transceiver:	4022AU/G/UK	4023AU/G/UK	4022AU/G/UK	4023AU/G/UK
Installation:	Hand	Hand	Hand /Fixed in the wall	Hand /Fixed in the wall
Battery:	3 V lithium CR2016 x 2	3 V lithium CR2016 x 2	AAA x 3	AAA x 3
Radiated output:	5800 uV/m @3m	5800 uV/m @3m	5750 uV/m @3m	5750 uV/m @3m
RF operating range	50m (open field)	50m (open field)	200m (open field)	200m (open field)
Dimensions:	90 × 42 × 6mm	90 × 42 × 6mm	155 x 83 x 17mm	155 x 83 x 17mm
RF frequency:	433.92 MHz			
Ambient temperature:	- 10° C to + 50°C (operation)			
Compatibility:	Be able to work with X-10 Modules by a PLCBUS/X-10 Interface.			

Wall Scene Controller:

KEY Features:

- * Highly Reliability, error rate in 1/10000
- * Super High anti-jamming capability.
- * Code Set Electronically.
- * Both “Receiver” and “Transmitter”.
- * Each Scene can control up to 31 units.
- * “Beeps” indicates you have entered “Setting Mode”.
- * Local ‘manual’ control one or a group of units at different place.
- * Choosing different switch panel colors to fit for your mood.

Function Remark:

1. Scene function: For example: you want to set a “Dinner” mode, you need A01ON, B07ON, Audio(C04) TURN ON, and the Curtain(P08) Close, you can use you Mini-Controller send a series of address code:” A01, B07, C04 and P08” one by one, then this “Dinner” Scene will memory these 4 address codes. When you tap “Top” button for “Turn on”, the 4 units will “Turn on” one by one. No sending commands with your Controller one by one necessary.

* 2269E is an “In-Line Module”, it should be fixed behind any of your existing wall switch and it can control up to 4 scenes (16 units for each scene). .

Technical information:

Model No.	PLC-T 4206E	PLCBUS-T 4206E	PLC-T 2269E	PLCBUS-T 2269E
Product Pictures:		Crystal panel switch, be ready till Sep.		
Products Type:	Wall Switch	Wall Switch	In-line Module	In-line Module
"Scenes" QTY:	Two	Two	Four	Four
Control Units for each:	Up to 31 x 2	Up to 31 x 2	Up to 16 x 4	Up to 16 x 4
Two-Way Communications:	No	Yes	No	Yes
Signal Speed:	60 bits/sec	200 bits/sec	60 bits/sec	200 bits/sec
Speed, commands/sec:	1 per sec	5 per sec	1 per sec	5 per sec
Reliability:	Very Poor 70%~80%	Very High > 99.9%	Very Poor 70%~80%	Very High > 99.9%
Dimensions(L x W x H):	43.25 x 47 x 18.9 mm			
Supply voltage:	230V +/- 10% 50Hz			
Ambient temperature:	- 10° C to + 50°C (operation)			
Dimmable:	If you set #4206E code same as an Incandescent lamp, it can be dimmable; No dimming for Fluor / Appliances. (#2269E Dimmer by remote.)			

Mini-Timer:

KEY Features:

- * Timing controls the units in your home.
- * Time function and Alarm clock with dulcet music.
- * Buttons to turn on/off and dim up to 8 light or appliance modules (No dimming to Appliances).
- * 230V ~ 50Hz with battery backup (9 V).

Technical information:

Model No.	PLC-T 1102E
Product Pictures:	
Supply plug style:	2-pin Europe style
Supply voltage:	230V +/- 10% 50Hz
Battery backup:	9V. 6F22 OR NEDA 1604
Power wastage:	≤ 2.5W
Ambient temperature:	- 10° C to + 50°C (operation)
Dimensions:	110 x 102 x 46mm (L x W x H)

X10 PC RF Interface:

KEY Features:

- * Control up to 256 units through your computer interface.
- * Compatible with any X10 RF Base.
- * Encrypt function prevent the interferences between you and your neighbors.
- * A software for free, and the software running automatically in CD-ROM or DVD-ROM.

Technical information:

Model No.	PLC-T 1140E	PLC-T 1141E
Product Pictures:		
Encrypt :	No	Yes
Use with Transceiver:	4018E / X10 RF Base	4020E only
RF Frequency:	433.92MHz	
Port to computer:	Serial Port	
Radiated Output:	5600µV/m @3m ≤20m	
Ambient temperature:	- 10° C to + 50°C (operation)	
Dimensions:	88 x 49 x 27 mm (L x W x H)	

PLCBUS/X-10 System Interface:

KEY Features:

- * A bridge between PLCBUS and X-10 Systems..
- * With this Interface (PLCBUS 4808E), you can use our PLCBUS controller to control common X-10 Products, and also can use X-10 Controllers to control our PLCBUS Receiver Modules.
- * Plug-in type, very easy to be used.

Model No.	PLCBUS 4808E
Product Pictures:	
Supply voltage:	230V +/- 10% 50Hz
Ambient temperature:	- 10° C to + 50°C (operation)
Dimensions:	110 x 60 x 35mm without plug part.

Telephone Controller:

KEY Features:

- * Security code protection.
- * Voice indicates you how to do next step

- * Flashes lights when the phone rings.
- * Executes all common X-10 commands
- * Works with most answering machines.
- * Easy plug-in installation.
- * Controls all 256 X-10 addresses by any phone in the world (Keypad control is also ok).

Technical information:

Model No.	PLC-T 5010E
Product Pictures:	
Supply plug style:	2-pin Europe style
Supply voltage:	230V +/- 10% 50Hz
Transmitting intensity:	5Vpp at 120kHz
Dial Type:	DTMF
Material of Casing/Color:	Plastic / Black
Ambient temperature:	- 10° C to + 50°C (operation)
Dimensions:	160 x 110 x 38mm (L x W x H)

Audio Controller:

KEY Features:

- * Code set electronically.
- * Compatible with any X10 Controllers.
- * Turn on/Turn off Audio devices.
- * Adjust the volume of Audio devices

Technical information:

Model No.	PLC-R 6000E
Product Pictures:	
Supply plug style:	2-pin Europe style
Supply voltage:	230V +/- 10% 50Hz
Signal sensitivity:	Min to 25mVpp at 120kHz
Input Audio:	1Vpp

Material of Casing/Color:	Plastic / Black
Ambient temperature:	- 10° C to + 50°C (operation)
Dimensions:	160mm X 110mm X 38mm (L x W x H)

Curtain Controller:

KEY Features:

- * Code set electronically only in 6 seconds.
- * A wall mounted motor drive switch that can be used to operate curtains, sunshades and shutters.
- * Works while you're in the house, or when you're absent -- to make your house appear lived in.
- * A single button controls all shutters.
- * Controls the shutters or blinds in response to X10 signals received on the power line or manually from the push button on the front of the unit.
- * Comes with trim plate and manual.
- * Compatible with any X10 Controllers
- * You can choose different switch panel colors to fit for your mood.

Technical information:

Model No.	PLC-R 3160E
Product Pictures:	
Supply voltage:	230V +/- 10% 50Hz
Signal sensitivity:	Min to 25mVpp at 120kHz
Curtain Motor:	= 45W
Ambient temperature:	- 10° C to + 50°C (operation)
Dimensions:	Panel size: 86mm X 86mm Back part size: 45 x 45 x 46mm (L x W x H)

IR Device Controller:

KEY Features:

- * Code set electronically.
- * Control any IR Device Turn ON / Turn Off.
- * Control up to 32 commands in one IR Controller.
- * Control most of Air-Conditioners, TV, DVD, VCR... over the world.
- * Prolong the usage life of IR Devices.
- * Universal axes design, it can circumvolve at random angle freely.

Technical information:

Model No.	PLC-R 3011E
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Product Pictures:	
Responds commands:	Up to 32
Supply plug style:	2-pin Europe style
Supply voltage:	230V +/- 10% 50Hz
Signal sensitivity:	Min to 25mVpp
Operating range	≤7m
Perpendicularity Elevation	±22.5°
Ambient temperature:	- 10° C to + 50°C (operation)
Dimensions:	90 x 68 x 54mm (L x W x H)

Troubleshooting Devices – Filter/Coupler:

KEY Features: (For X-10 System only)

- * Prevent X10 signal from your neighbor interfering yours;
- * Prevent outdoor power line noise;
- * Full block-out design;
- * Resist lightning strike design;
- * Block burning design.
- * Couples signals across phases.

*** Note:** PLCBUS 4825E is for “PLCBUS” System; and 4825E is for X-10 only.

Technical information:

Model No.	4815E	4816E	4805E	4817E	4825E	PLCBUS 4825E
Product Pictures:						
Rating Current:	30A	40A	20A/phase	20A/phase	No limited	No limited
Function:	Filter	Filter	Filter	Filter/Coupler	Coupler	Coupler
Phases:	1-phase	1-phase	3-phase	3-phase	3-phase	3-phase
Material of Casing:	Metal	Metal	Metal	Metal	Plastic	Plastic
Dimensions:						
Repeater	No (Coupler only)					Yes
Filter centre frequency:	120KHz					
Filter band width:	5KHz Min. (3 dB points)					
Forward attenuation:	20 dB min. at zero current					
Forward input impedance:	20 Ohm min. at 120 KHz					
Coupling loss:	2 dB max. at 120 KHz					
Supply voltage:	230V +/- 10% 50Hz					
Connections:	Wired type terminals for phase (supply), phase (house), neutral, coupling.					
Ambient temperature:	- 10° C to + 50°C (operation)					

Filter (Plug-in/Module wired):

KEY Features: (For X-10 System only)

- * Prevents X10 Signal Absorption.
- * Clean “Noise” from the Powerline to appliances.
- * Available in a wide range of plug style (German, British, Australian ...) for Plug one.

Tech Tip:

A quick way to test if an electrical device is adding interference on the powerline, or absorbing X10 signals is to unplug the device and re-transmit the signal. If the X10 device begins working after the appliance is unplugged, then the FilterLinc is exactly what you need.

Model No.	4813E	4812AU	4812G	4812UK
Product Pictures:				
Plug style:	In-line Module	Australia/NZ	Germany	UK
Dimensions (L x W x H):	43.25 x 47 x 18.9 mm	110 x 60 x 35mm	110 x 60 x 35mm	110 x 60 x 35mm
Production Status:	Ok	Ok	R&D	R&D
Supply voltage:	230V +/- 10% 50Hz			
Rating Current:	≤ 5A			
Filter centre frequency:	120 ± 20KHz			
Filter band width:	5KHz Min. (3 dB points)			
Forward attenuation:	20 dB min. at zero current			
Forward input impedance:	20 Ohm min. at 120 KHz			
Coupling loss:	2 dB max. at 120 KHz			
Material of Casing / Color:	Plastic / White			
Ambient temperature:	- 10° C to + 50°C (operation)			

System signal indicator:

KEY Features:

- * Measures the strength (voltage) of this signal.
- * Plug the signal strength indicator into a wall outlet and send an PLCBUS or X-10 command. The indicator will tell you the quality of the X-10 signal between the 2 locations.
- * Has 5 signal strength levels showing the strength of the PLCBUS or X-10 signal.
- * High-frequency noise affecting the PLCBUS or X-10 signal can be sensed with this device and can be neutralized by Coupler/Filters and Filters.
- * It is a good practice to test the complete system with the Signal Strength Indicator.

Technical information:

Model No.	4810E	PLCBUS 4810E
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Product Pictures:		
Supply voltage:	230V +/- 10% 50Hz	
Power wastage:	≤ 1W	
Material of Casing / Color:	Plastic / Black	
Dimensions:	88 x 49 x 27 mm (L x W x H)	
Ambient temperature:	- 10° C to + 50°C (operation)	

Security System – Security Console:

KEY Features:

- * 16 Zones Security Control (16 wireless + 16 wiring sensors control in it);
- * 256 X10 Home Automation products control;
- * 1 LCD Keypad Control Panel (Plam) with timer and Clock Control;
- * 5 User Passwords (Additional 1 Engineering password);
- * 5 Telephone No. Auto Dialing (Additional 1 dialing to Alarm Center);
- * 100 Events Log;
- * Built-in Long-distance Telephone Controller;
- * Built-in X10 RF Base (Transceiver);
- * Voice-indicating function (English version);
- * 485 interface;
- * Built-in Backup Batteries; (Additional one interface for external Backup Batteries)
- * 120dB Alarm;
- * Standard Contract ID;
- * Sensors alarming under low batteries.
- * Be fixed on the wall or put on your table;
- * Very beautiful and fashion design for outlook, and so on.



Security Console

Sensors:

Wireless Motion Sensor:

KEY Features:

- Detect whether somebody moving in the Zone;
- Low battery alarming function;
- Advanced digital signal processing;
- SMD circuitry, superior RF/EMI immunity;
- White light immunity, insect proof housing;
- Automatic temperature compensation, self testing software;
- Alarm memory function, TAMPER protection fast, easy installation, high reliability;
- 9-16V External DC Operation
- Normal Close Trigger Output (N.C)



Wireless Motion Sensor

Suitable for Security System Sensor Components;
Applicable to CCD/CMOS Camera Trigger Input.
(Above Features is improving phase now).

Technical Informations:

Operating Voltage: 5V,
Supply Voltage: 9V, 1 AAA
Frequency: 433.92MHz
Effective Range $\leq$ 12m/40ft
Sensitivity: X axes (aclinic): 70°
 Y axes (upright): 50°
Battery Life: Up to 6 months
Ambient temperature: - 10° C to + 50°C
Dimensions: 105 X 60 X 45 mm (L x W x H)

Magnetic Sensor:

KEY Features:

Detect whether some door/windows are open in the Zone;
Low battery alarming function;
Easy to be installed.

Technical Information:

Supply Voltage: 12V
Frequency: 433.92MHz
Effective Range: Up to 12m/40ft
Battery Life: Up to 6 months
Ambient temperature: - 10° C to + 50°C
Dimensions: 70 X 55 X 20 mm (L x W x H)



Magnetic Sensor

Smoke Detector:

KEY Features:

.
Easy to install with mounting hardware included;
9 Volt batteries included;
Suitable for any room;
Test button for easy recommended monthly testing;
To protect you, a safety clip will not allow mounting of smoke alarm without 9 Volt battery installed;
Ionization chamber for early, detection from all directions;
Loud 85db alarm signal.



Smoke Detector

Gas Detector:

KEY Features:

Suitable for ignitable gas such as gas, liquefied petroleum gas and natural gas;

The parts are processed with protection means, which makes them can be used in humidity and salty environment;

Good temperature adaptability, can be worked in the range of $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$;

High sensitivity, high reliability and long life;

Small, light and easy to be installed.

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