

## 739 X-10 Interface Module

### Description

The 739 X-10 Interface Module provides an interface between X-10 devices and DMP XR500 Series and XR100 Series panels. The 739 Module allows the panel LX-Bus outputs to control the X-10 devices on/off status.

The 739 connects to the DMP LX-Bus using the standard 4-wire LX-Bus connector and does not require any address programming. Using the supplied RJ11 telephone cable, the 739 X-10 Interface Module easily connects to an X-10 Powerline Interface Module or X-10 Two-Way Powerline Interface Module to provide the on/off X-10 output commands. Refer to the back page for model numbers.

For example, if the 739 is on LX-Bus 2 and is controlling House Code A devices, when output 601 is turned on, the X-10 device set to A1 turns on. If the X-10 device addressed as A1 is a lamp, when output 601 panel is on, the lamp is on. See Table 1.

### Setting the House Code Jumpers

Each 739 Module can control up to 96 X-10 devices. You can install a second 739 Module on another LX-Bus circuit to control an additional 96 devices. One 739 Module is allowed per LX-Bus circuit.

Set JP1 according to the House Code group you wish to control. You may control devices with House Codes A through F or House Codes G through L.

The 739 Module can be connected to any LX-Bus and can control either group of House Codes. For example, you can install the 739 to control House Codes A through F on LX-Bus 1 outputs 501 through 596 on an XR500 Series or XR100 Series panel. You could then install a second 739 Module to Control House Codes G through L on LX-Bus 2 outputs 601 through 696 on an XR500 Series panel.

See Table 1 for a list of the House Codes the LX-Bus outputs control. Refer to Tables 3 through 6 for exact conversions for each House Code device and LX-Bus.

Set JP1 jumper according to the House Codes, or groups of X-10 devices that you wish to control with the 739 Module. To control X-10 devices with House Codes A through F, place the jumper on the two JP1 pins labeled 0 (zero). To control X-10 devices with House Codes G through L, place the jumper on the two JP1 pins labeled 1 (one). Always leave the jumper on the two JP2 pins labeled 0 (zero).

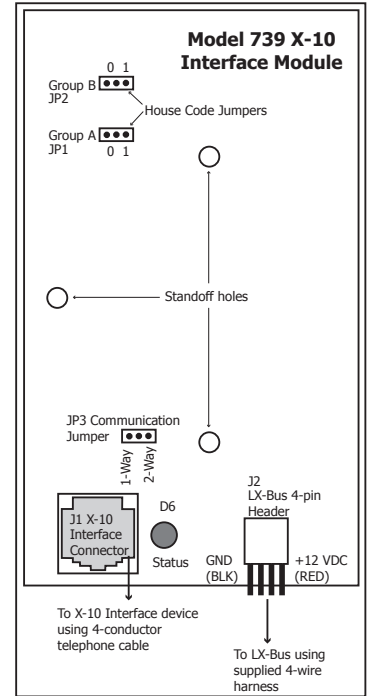


Figure 1: 739 Module PCB

X-10 Jumper Settings		House Code	X-10 Device	LX-Bus Output	XR500 Series LX-Bus					XR100 LX-Bus #1
JP1 (Group A)	JP2 (Group B)				#1	#2	#3	#4	#5	
0	0	A	A1 to A16	1 to 16	501 to 596	601 to 696	701 to 796	801 to 896	901 to 996	501 to 596
		B	B1 to B16	17 to 32						
		C	C1 to C16	33 to 48						
		D	D1 to D16	49 to 64						
		E	E1 to E16	65 to 80						
		F	F1 to F16	81 to 96						
1	0	G	G1 to G16	1 to 16	501 to 596	601 to 696	701 to 796	801 to 896	901 to 996	501 to 596
		H	H1 to H16	17 to 32						
		I	I1 to I16	33 to 48						
		J	J1 to J16	49 to 64						
		K	K1 to K16	65 to 80						
		L	L1 to L16	81 to 96						

Table 1: House Code Jumper Settings and Output Assignments

### Setting the Communication Jumpers

Set the communication jumper, JP3, according to the type of X-10 Powerline Interface Module to which the 739 Module is connected. A One-Way Powerline Interface Module, such as an X-10 PSC04 or RadioShack® PL513, does not listen for other X-10 traffic on the house circuits and transmits its commands at any time. A Two-Way Powerline Interface Module, such as an X-10 PSC05 or RadioShack® TW523, listens for other X-10 traffic on the house circuits and transmits its commands when other X-10 devices are not transmitting.

If the interface module is a 1-Way communicator, install the jumper header on the two pins on J3 labeled 1-WAY. If the interface module operates in 2-way communication, install the jumper header on the two pins on J3 labeled 2-WAY. See Figure 1 for jumper locations.



## RJ Cable Specifications

The RJ cable used between the X-10 Powerline Interface Module and the 739 is a straight, 4-conductor modular RJ11 cord, which is supplied with the 739 Module. This is also referred to as a Telephony Standard 4-Conductor Modular Cord. The pins on the connectors crossover as shown in Table 2.

739 Connector Pins		X-10 Module Pins
1	=	4
2	=	3
3	=	2
4	=	1

Table 2: Cable Pinouts

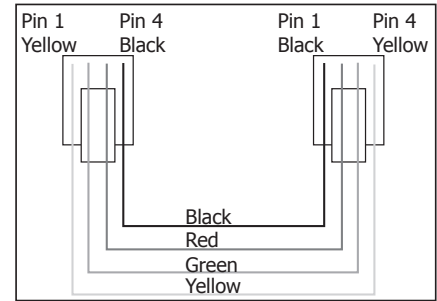


Figure 2: RJ11 Cable

## Mounting in Enclosures

You can mount the 739 into DMP enclosures using the standard 3-hole mounting configuration.

1. Mount the three plastic standoffs to the enclosure using the included three Phillips head screws.
2. Insert the screws from the outside of the enclosure through the holes and into the plastic standoff which mounts on the inside of the enclosure and tighten.
3. After securing and tightening the standoffs onto the enclosure, snap the 739 onto the standoffs.

## Wiring the 739 Module

After properly mounting the 739, connect the supplied 4-wire harness to the 739 Module J2 4-pin header. Connect the 4 wires from the harness to the LX-Bus: Connect the red wire from the 739 to the red wire on the LX-Bus, yellow to yellow, green to green, and black to black.

Finally, connect a standard 4-conductor modular RJ11 cable to 739 Module J1 X-10 Interface Connection to the telephone connector on the X-10 Powerline Interface Module. Refer to Figures 1 and 3.

## Checking the 739 Status

The 739 red LED (D6) indicates system status.

- Off with Blink:** The 739 is operating normally and the system is okay.
- On with Blink:** The entire X-10 system is not receiving power
- On:** Indicates the 739 is not receiving data from the Command Processor™ panel.
- Off:** Indicates the 739 is not receiving power.

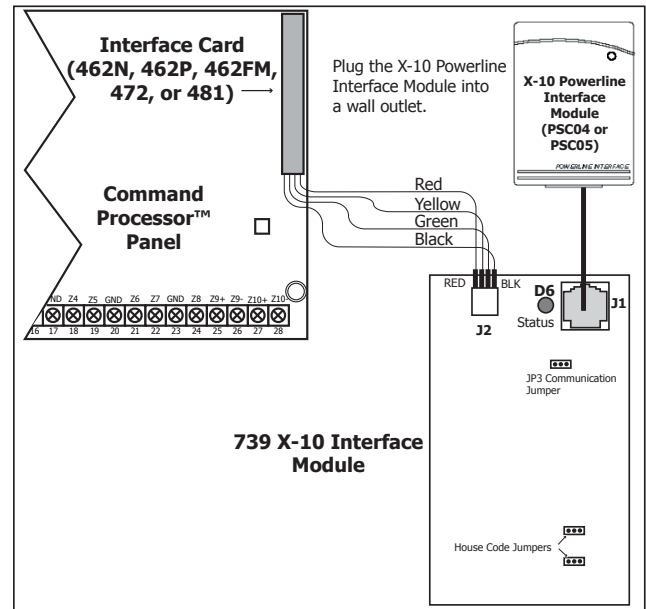


Figure 3: 739 Wiring Diagram

## Conversion Tables

The following tables convert each device House Code into the corresponding LX-Bus output number.

### XR100 Panels

In the left-hand column, find the X-10 device you are controlling with the LX-Bus output. Use the right column for LX-Bus 1 output numbers. House Codes A through L are converted to XR100 LX-Bus output numbers in Table 3. For House Code devices A through F set JP1 jumper to 0 and JP2 jumper to 0. For House Code devices G through L set JP1 jumper to 1 and JP2 jumper to 0.

X-10 Device	XR100 Output # LX-Bus 1	X-10 Device	XR100 Output # LX-Bus 1	X-10 Device	XR100 Output # LX-Bus 1	X-10 Device	XR100 Output # LX-Bus 1	X-10 Device	XR100 Output # LX-Bus 1	X-10 Device	XR100 Output # LX-Bus 1
A 1	501	C 1	533	E 1	565	G 1	501	I 1	533	K 1	565
A 2	502	C 2	534	E 2	566	G 2	502	I 2	534	K 2	566
A 3	503	C 3	535	E 3	567	G 3	503	I 3	535	K 3	567
A 4	504	C 4	536	E 4	568	G 4	504	I 4	536	K 4	568
A 5	505	C 5	537	E 5	569	G 5	505	I 5	537	K 5	569
A 6	506	C 6	538	E 6	570	G 6	506	I 6	538	K 6	570
A 7	507	C 7	539	E 7	571	G 7	507	I 7	539	K 7	571
A 8	508	C 8	540	E 8	572	G 8	508	I 8	540	K 8	572
A 9	509	C 9	541	E 9	573	G 9	509	I 9	541	K 9	573
A 10	510	C 10	542	E 10	574	G 10	510	I 10	542	K 10	574
A 11	511	C 11	543	E 11	575	G 11	511	I 11	543	K 11	575
A 12	512	C 12	544	E 12	576	G 12	512	I 12	544	K 12	576
A 13	513	C 13	545	E 13	577	G 13	513	I 13	545	K 13	577
A 14	514	C 14	546	E 14	578	G 14	514	I 14	546	K 14	578
A 15	515	C 15	547	E 15	579	G 15	515	I 15	547	K 15	579
A 16	516	C 16	548	E 16	580	G 16	516	I 16	548	K 16	580
B 1	517	D 1	549	F 1	581	H 1	517	J 1	549	L 1	581
B 2	518	D 2	550	F 2	582	H 2	518	J 2	550	L 2	582
B 3	519	D 3	551	F 3	583	H 3	519	J 3	551	L 3	583
B 4	520	D 4	552	F 4	584	H 4	520	J 4	552	L 4	584
B 5	521	D 5	553	F 5	585	H 5	521	J 5	553	L 5	585
B 6	522	D 6	554	F 6	586	H 6	522	J 6	554	L 6	586
B 7	523	D 7	555	F 7	587	H 7	523	J 7	555	L 7	587
B 8	524	D 8	556	F 8	588	H 8	524	J 8	556	L 8	588
B 9	525	D 9	557	F 9	589	H 9	525	J 9	557	L 9	589
B 10	526	D 10	558	F 10	590	H 10	526	J 10	558	L 10	590
B 11	527	D 11	559	F 11	591	H 11	527	J 11	559	L 11	591
B 12	528	D 12	560	F 12	592	H 12	528	J 12	560	L 12	592
B 13	529	D 13	561	F 13	593	H 13	529	J 13	561	L 13	593
B 14	530	D 14	562	F 14	594	H 14	530	J 14	562	L 14	594
B 15	531	D 15	563	F 15	595	H 15	531	J 15	563	L 15	595
B 16	532	D 16	564	F 16	596	H 16	532	J 16	564	L 16	596

Table 3: House Code Devices A through F (Jumper Setting: 0 0) and G through L (Jumper Setting: 1 0)

### XR500 Series Panels

XR500 Series panels support up to five LX-Bus circuits. In the left-hand column, find the X-10 device you are controlling and match it with the LX-Bus output number applicable to your system configuration in the right-hand columns. House Codes A through F are converted to XR500 Series LX-Bus output numbers in Tables 4 and 5. Set JP1 jumper to 0 and JP2 jumper to 0. Table 6 converts House Codes G through L to XR500 Series LX-Bus output numbers. Set JP1 jumper to 1 and JP2 jumper to 0.

X-10 Device	XR500 Series Output # and LX-Bus					X-10 Device	XR500 Series Output # and LX-Bus					X-10 Device	XR500 Series Output # and LX-Bus				
	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5
A 1	501	601	701	801	901	B 1	517	617	717	817	917	C 1	533	633	733	833	933
A 2	502	602	702	802	902	B 2	518	618	718	818	918	C 2	534	634	734	834	934
A 3	503	603	703	803	903	B 3	519	619	719	819	919	C 3	535	635	735	835	935
A 4	504	604	704	804	904	B 4	520	620	720	820	920	C 4	536	636	736	836	936
A 5	505	605	705	805	905	B 5	521	621	721	821	921	C 5	537	637	737	837	937
A 6	506	606	706	806	906	B 6	522	622	722	822	922	C 6	538	638	738	838	938
A 7	507	607	707	807	907	B 7	523	623	723	823	923	C 7	539	639	739	839	939
A 8	508	608	708	808	908	B 8	524	624	724	824	924	C 8	540	640	740	840	940
A 9	509	609	709	809	909	B 9	525	625	725	825	925	C 9	541	641	741	841	941
A 10	510	610	710	810	910	B 10	526	626	726	826	926	C 10	542	642	742	842	942
A 11	511	611	711	811	911	B 11	527	627	727	827	927	C 11	543	643	743	843	943
A 12	512	612	712	812	912	B 12	528	628	728	828	928	C 12	544	644	744	844	944
A 13	513	613	713	813	913	B 13	529	629	729	829	929	C 13	545	645	745	845	945
A 14	514	614	714	814	914	B 14	530	630	730	830	930	C 14	546	646	746	846	946
A 15	515	615	715	815	915	B 15	531	631	731	831	931	C 15	547	647	747	847	947
A 16	516	616	716	816	916	B 16	532	632	732	832	932	C 16	548	648	748	848	948

Table 4: House Code Devices A through C (Jumper Setting: 0 0)

X-10 Device	XR500 Series Output # and LX-Bus				
	1	2	3	4	5
D 1	549	649	749	849	949
D 2	550	650	750	850	950
D 3	551	651	751	851	951
D 4	552	652	752	852	952
D 5	553	653	753	853	953
D 6	554	654	754	854	954
D 7	555	655	755	855	955
D 8	556	656	756	856	956
D 9	557	657	757	857	957
D 10	558	658	758	858	958
D 11	559	659	759	859	959
D 12	560	660	760	860	960
D 13	561	661	761	861	961
D 14	562	662	762	862	962
D 15	563	663	763	863	963
D 16	564	664	764	864	964

X-10 Device	XR500 Series Output # and LX-Bus				
	1	2	3	4	5
E 1	565	665	765	865	965
E 2	566	666	766	866	966
E 3	567	667	767	867	967
E 4	568	668	768	868	968
E 5	569	669	769	869	969
E 6	570	670	770	870	970
E 7	571	671	771	871	971
E 8	572	672	772	872	972
E 9	573	673	773	873	973
E 10	574	674	774	874	974
E 11	575	675	775	875	975
E 12	576	676	776	876	976
E 13	577	677	777	877	977
E 14	578	678	778	878	978
E 15	579	679	779	879	979
E 16	580	680	780	880	980

X-10 Device	XR500 Series Output # and LX-Bus				
	1	2	3	4	5
F 1	581	681	781	881	981
F 2	582	682	782	882	982
F 3	583	683	783	883	983
F 4	584	684	784	884	984
F 5	585	685	785	885	985
F 6	586	686	786	886	986
F 7	587	687	787	887	987
F 8	588	688	788	888	988
F 9	589	689	789	889	989
F 10	590	690	790	890	990
F 11	591	691	791	891	991
F 12	592	692	792	892	992
F 13	593	693	793	893	993
F 14	594	694	794	894	994
F 15	595	695	795	895	995
F 16	596	696	796	896	996


Table 5: House Code Devices D through F (Jumper Setting: 0 0 )

X-10 Device	XR500 Series Output # and LX-Bus				
	1	2	3	4	5
G 1	501	601	701	801	901
G 2	502	602	702	802	902
G 3	503	603	703	803	903
G 4	504	604	704	804	904
G 5	505	605	705	805	905
G 6	506	606	706	806	906
G 7	507	607	707	807	907
G 8	508	608	708	808	908
G 9	509	609	709	809	909
G 10	510	610	710	810	910
G 11	511	611	711	811	911
G 12	512	612	712	812	912
G 13	513	613	713	813	913
G 14	514	614	714	814	914
G 15	515	615	715	815	915
G 16	516	616	716	816	916
H 1	517	617	717	817	917
H 2	518	618	718	818	918
H 3	519	619	719	819	919
H 4	520	620	720	820	920
H 5	521	621	721	821	921
H 6	522	622	722	822	922
H 7	523	623	723	823	923
H 8	524	624	724	824	924
H 9	525	625	725	825	925
H 10	526	626	726	826	926
H 11	527	627	727	827	927
H 12	528	628	728	828	928
H 13	529	629	729	829	929
H 14	530	630	730	830	930
H 15	531	631	731	831	931
H 16	532	632	732	832	932

X-10 Device	XR500 Series Output # and LX-Bus				
	1	2	3	4	5
I 1	533	633	733	833	933
I 2	534	634	734	834	934
I 3	535	635	735	835	935
I 4	536	636	736	836	936
I 5	537	637	737	837	937
I 6	538	638	738	838	938
I 7	539	639	739	839	939
I 8	540	640	740	840	940
I 9	541	641	741	841	941
I 10	542	642	742	842	942
I 11	543	643	743	843	943
I 12	544	644	744	844	944
I 13	545	645	745	845	945
I 14	546	646	746	846	946
I 15	547	647	747	847	947
I 16	548	648	748	848	948
J 1	549	649	749	849	949
J 2	550	650	750	850	950
J 3	551	651	751	851	951
J 4	552	652	752	852	952
J 5	553	653	753	853	953
J 6	554	654	754	854	954
J 7	555	655	755	855	955
J 8	556	656	756	856	956
J 9	557	657	757	857	957
J 10	558	658	758	858	958
J 11	559	659	759	859	959
J 12	560	660	760	860	960
J 13	561	661	761	861	961
J 14	562	662	762	862	962
J 15	563	663	763	863	963
J 16	564	664	764	864	964

X-10 Device	XR500 Series Output # and LX-Bus				
	1	2	3	4	5
K 1	565	665	765	865	965
K 2	566	666	766	866	966
K 3	567	667	767	867	967
K 4	568	668	768	868	968
K 5	569	669	769	869	969
K 6	570	670	770	870	970
K 7	571	671	771	871	971
K 8	572	672	772	872	972
K 9	573	673	773	873	973
K 10	574	674	774	874	974
K 11	575	675	775	875	975
K 12	576	676	776	876	976
K 13	577	677	777	877	977
K 14	578	678	778	878	978
K 15	579	679	779	879	979
K 16	580	680	780	880	980
L 1	581	681	781	881	981
L 2	582	682	782	882	982
L 3	583	683	783	883	983
L 4	584	684	784	884	984
L 5	585	685	785	885	985
L 6	586	686	786	886	986
L 7	587	687	787	887	987
L 8	588	688	788	888	988
L 9	589	689	789	889	989
L 10	590	690	790	890	990
L 11	591	691	791	891	991
L 12	592	692	792	892	992
L 13	593	693	793	893	993
L 14	594	694	794	894	994
L 15	595	695	795	895	995
L 16	596	696	796	896	996

Table 6: House Code Devices G through L (Jumper Setting: 1 0 )

<b>Specifications</b> Operating Voltage 12 Vdc Current Draw 13mA standby Dimensions 5.0" H x 3.0" W <b>DMP Panel Compatibility</b> XR500 Series and XR100 Series Panels	<b>X-10 Interface Compatibility</b> The 739 Module is compatible with the following devices available from a variety of X-10 dealers. PSC04 Powerline Interface Module PSC05 Two-Way Powerline Interface Module <b>RadioShack® Part Numbers</b> PL513 Powerline Interface Module TW523 Two-Way Powerline Interface Module
	
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