

Description

The Model 736P Radionics™ Popit Interface Module allows you to interface a Radionics™ Popit System to a DMP XR20, XR200, or XR200-485 Command Processor™ panel while maintaining the existing POPIT bus wiring. The 736P connects to either the DMP Keypad bus or LX-Bus™ and supports up to 32 zones on the Keypad bus and up to 100 zones on the LX-Bus™. When connecting to the LX-Bus™, an expansion card is required (Models 481, 472, 462P or 462N). Currently, the 736P module supports various Radionics™ Popex zone expanders and Octopopits. See Table 1 for models.

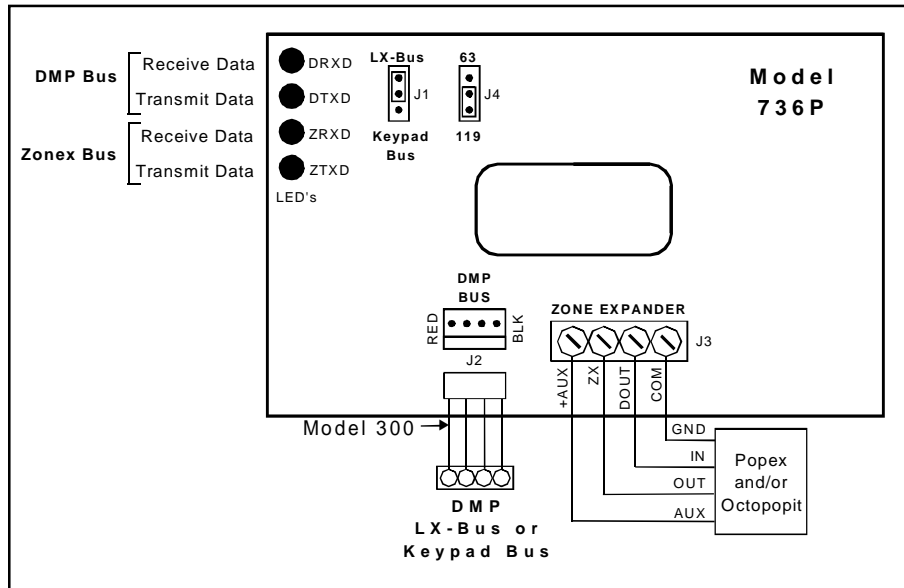


Figure 1: 736P Wiring

Model	Description
D8125	Popex Zone Expander
D8128A	Octopopit for 63 point bus
D8128C	Octopopit for 63 or 119 point bus

Table 1: Supported Popit Models

736P	Popex
+AUX	AUX
ZX	OUT
DOUT	IN
COM	GND

Table 2: Popex Wiring

Wiring Distance and Power Requirements

The maximum wire distance between any 736P and the DMP LX-Bus circuit is 2,500 feet. The maximum number of LX-Bus devices on any one 2,500 ft. circuit is 40. To increase the wiring distance and/or number of devices, you must install a DMP 710 Bus Splitter/Repeater Module. Refer to the 710 Module Installation Sheet (LT-0310) for complete information. The maximum wire distance between the 736P and any Radionics™ Popex and Octopopit is 10 feet. The power requirement for the 736P is 12 VDC @ 25mA.

DMP Bus Header (J1)

When connecting to the Keypad bus, place the J1 jumper across the two bottom pins marked **KEYPAD BUS**. When connecting to the LX-Bus™, place the J1 jumper across the two top pins marked **LX-BUS**. See Figure 1.

DMP Bus Connector (J2)

For connection to a Keypad bus, connect the provided four wire harness (Model 300) from the **DMP BUS** header (J2) to the Command Processor™ panel terminals marked Red (7), Yellow (8), Green (9), and Black (10). For connection to the LX-Bus™, connect the provided four wire harness (Model 300) from the **DMP BUS** header (J2) to the four wires of the DMP panel LX-Bus™. See Figure 1.

Zone Expander Connector (J3)

Connect the Radionics™ Popex and Octopopit modules to the **ZONE EXPANDER** connector (J3) of the 736P based on Table 2 and Figure 1.

Zonex Bus Header (J4)

This jumper selects the type of Radionics™ Zonex Bus that connects to the 736P module. To select for a 63 point (horizontal or vertical) bus, place the J4 jumper across the two top pins marked **63**. To select the expanded (119) point bus, place the J4 jumper across the two bottom pins marked **119**. See Figure 1.

Mounting to walls

The 736P is shipped installed in a decorative, high impact plastic case that can mount directly to walls, backboards, or other flat surfaces. Wire entrances are provided on the back and at each end of the case for installation ease. The bottom half of the plastic case contains two screw holes for mounting the case on single-gang switch boxes or rings.

Mounting in panel enclosures

The 736P can also be installed in an XR200 medium (Model 349) or large (Model 350) enclosure using the 3-hole mounting configuration. See the table below for enclosure information. Plastic standoffs are provided that snap into the 3 standoff holes on the board and plug into the enclosure mounting holes. See Figure 2.

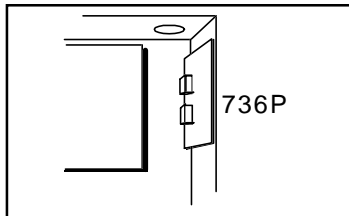


Figure 2: 736P Enclosure Mounting

Model	Description
349	Medium enclosure (12.5"W x 11.5"H x 3.5"D)
349A	Grade A medium enclosure (12.5"W x 11.5"H x 3.75"D)
350	Large enclosure (17.5"W x 13.5"H x 3.5"D)
XR20M	XR20 in medium enclosure
XR200M	XR200 in medium enclosure
XR200L	XR200 in large enclosure

Zonex point to DMP zone conversion

At power up, the 736P communicates with the Popex module and creates a table of equivalent DMP zone addresses (00-99). The current zone states are received from the Popex module and then transmitted to the DMP panel (Normal, Open, Shorted). The conversion tables on pages 3 and 4 show the Radionics™ point number and the corresponding DMP zone number for the LX-Bus™ and Keypad Bus. Once the corresponding DMP zone is determined from the tables it must be programmed into the panel.

How to use the tables

The conversion tables on pages 3 and 4 provide the Popit switch setting, the DMP Keypad bus number, the DMP LX-Bus™ point, and the Popit point. The Popit points are divided into the type of Radionics™ Zonex Bus (either a 63 point or an expanded 119 point). The 63 point Zonex bus is also divided by Horizontal and Vertical modes. To find the corresponding DMP zone from the table, select the Radionics™ point and the appropriate DMP bus type (either Keypad, LX1 or LX2). Find the Zonex point number in the table and the corresponding DMP zone is listed in the column immediately to the left. **Example:** Popit point 073 on the expanded (119 point) Zonex bus connected to the DMP LX1 bus corresponds to DMP zone 164.

Note: Radionics™ points 109 to 127 and 229 to 247 are not supported.

Zone Finder feature

The DMP XR200 and XR200-485 Command Processor™ panels have a Zone Finder feature built into the Diagnostic function which allows an installer to identify an unknown zone in the system. To identify the zone, fault the Popit point and the panel identifies the zone by displaying the equivalent DMP zone number at the keypad. Refer to the XR200 (LT-0196) Programming Manual for additional information on how to use this feature.

Conversion Tables for Zone Numbers

Popit Switch Setting							Keypad Bus	LX1 Bus	Popit Points			LX2 Bus	Popit Points		
									Hor. (63)	Vert. (63)	Exp. (119)		Hor. (63)	Vert. (63)	Exp. (119)
0	1	2	3	4	5	6	11	100	101	101	009	200	109	501	129
0	1	2	3	4	5	-	12	101	102	102	010	201	110	502	130
0	1	2	3	4	-	6	13	102	103	103	011	202	111	503	131
0	1	2	3	4	-	-	14	103	104	104	012	203	112	504	132
0	1	2	3	-	5	6	21	104	105	105	013	204	113	505	133
0	1	2	3	-	5	-	22	105	106	106	014	205	114	506	134
0	1	2	3	-	-	6	23	106	107	107	015	206	115	507	135
0	1	2	3	-	-	-	24	107	108	108	016	207	116	508	136
0	1	2	-	4	5	6	31	108	201	109	017	208	209	509	137
0	1	2	-	4	5	-	32	109	202	110	018	209	210	510	138
0	1	2	-	4	-	6	33	110	203	111	019	210	211	511	139
0	1	2	-	4	-	-	34	111	204	112	020	211	212	512	140
0	1	2	-	-	5	6	41	112	205	113	021	212	213	513	141
0	1	2	-	-	5	-	42	113	206	114	022	213	214	514	142
0	1	2	-	-	-	6	43	114	207	115	023	214	215	515	143
0	1	2	-	-	-	-	44	115	208	116	024	215	216	516	144
0	1	-	3	4	5	6	51	116	301	201	025	216	309	601	145
0	1	-	3	4	5	-	52	117	302	202	026	217	310	602	146
0	1	-	3	4	-	6	53	118	303	203	027	218	311	603	147
0	1	-	3	4	-	-	54	119	304	204	028	219	312	604	148
0	1	-	3	-	5	6	61	120	305	205	029	220	313	605	149
0	1	-	3	-	5	-	62	121	306	206	030	221	314	606	150
0	1	-	3	-	-	6	63	122	307	207	031	222	315	607	151
0	1	-	3	-	-	-	64	123	308	208	032	223	316	608	152
0	1	-	-	4	5	6	71	124	401	209	033	224	409	609	153
0	1	-	-	4	5	-	72	125	402	210	034	225	410	610	154
0	1	-	-	4	-	6	73	126	403	211	035	226	411	611	155
0	1	-	-	4	-	-	74	127	404	212	036	227	412	612	156
0	1	-	-	-	5	6	81	128	405	213	037	228	413	613	157
0	1	-	-	-	5	-	82	129	406	214	038	229	414	614	158
0	1	-	-	-	-	6	83	130	407	215	039	230	415	615	159
0	1	-	-	-	-	-	84	131	408	216	040	231	416	616	160
0	-	2	3	4	5	6		132	501	301	041	232	509	701	161
0	-	2	3	4	5	-		133	502	302	042	233	510	702	162
0	-	2	3	4	-	6		134	503	303	043	234	511	703	163
0	-	2	3	4	-	-		135	504	304	044	235	512	704	164
0	-	2	3	-	5	6		136	505	305	045	236	513	705	165
0	-	2	3	-	5	-		137	506	306	046	237	514	706	166
0	-	2	3	-	-	6		138	507	307	047	238	515	707	167
0	-	2	3	-	-	-		139	508	308	048	239	516	708	168
0	-	2	-	4	5	6		140	601	309	049	240	609	709	169
0	-	2	-	4	5	-		141	602	310	050	241	610	710	170
0	-	2	-	4	-	6		142	603	311	051	242	611	711	171
0	-	2	-	4	-	-		143	604	312	052	243	612	712	172
0	-	2	-	-	5	6		144	605	313	053	244	613	713	173
0	-	2	-	-	5	-		145	606	314	054	245	614	714	174
0	-	2	-	-	-	6		146	607	315	055	246	615	715	175
0	-	2	-	-	-	-		147	608	316	056	247	616	716	176
0	-	-	3	4	5	6		148	701	401	057	248	709	801	177
0	-	-	3	4	5	-		149	702	402	058	249	710	802	178

Conversion Tables for Zone Numbers (continued)

Popit Switch Setting						Keypad Bus	LX1 Bus	Popit Points			LX2 Bus	Popit Points		
								Hor. (63)	Vert. (63)	Exp. (119)		Hor. (63)	Vert. (63)	Exp. (119)
0	-	-	3	4	-	6	150	703	403	059	250	711	803	179
0	-	-	3	4	-	-	151	704	404	060	251	712	804	180
0	-	-	3	-	5	6	152	705	405	061	252	713	805	181
0	-	-	3	-	5	-	153	706	406	062	253	714	806	182
0	-	-	3	-	-	6	154	707	407	063	254	715	807	183
0	-	-	3	-	-	-	155	708	408	064	255	716	808	184
0	-	-	-	4	5	6	156	801	409	065	256	809	809	185
0	-	-	-	4	5	-	157	802	410	066	257	810	810	186
0	-	-	-	4	-	6	158	803	411	067	258	811	811	187
0	-	-	-	4	-	-	159	804	412	068	259	812	812	188
0	-	-	-	-	5	6	160	805	413	069	260	813	813	189
0	-	-	-	-	5	-	161	806	414	070	261	814	814	190
0	-	-	-	-	-	6	162	807	415	071	262	815	815	191
0	-	-	-	-	-	-	163	808	416	072	263	816	816	192
-	1	2	3	4	5	6	164			073	264			193
-	1	2	3	4	5	-	165			074	265			194
-	1	2	3	4	-	6	166			075	266			195
-	1	2	3	4	-	-	167			076	267			196
-	1	2	3	-	5	6	168			077	268			197
-	1	2	3	-	5	-	169			078	269			198
-	1	2	3	-	-	6	170			079	270			199
-	1	2	3	-	-	-	171			080	271			200
-	1	2	-	4	5	6	172			081	272			201
-	1	2	-	4	5	-	173			082	273			202
-	1	2	-	4	-	6	174			083	274			203
-	1	2	-	4	-	-	175			084	275			204
-	1	2	-	-	5	6	176			085	276			205
-	1	2	-	-	5	-	177			086	277			206
-	1	2	-	-	-	6	178			087	278			207
-	1	2	-	-	-	-	179			088	279			208
-	1	-	3	4	5	6	180			089	280			209
-	1	-	3	4	5	-	181			090	281			210
-	1	-	3	4	-	6	182			091	282			211
-	1	-	3	4	-	-	183			092	283			212
-	1	-	3	-	5	6	184			093	284			213
-	1	-	3	-	5	-	185			094	285			214
-	1	-	3	-	-	6	186			095	286			215
-	1	-	3	-	-	-	187			096	287			216
-	1	-	-	4	5	6	188			097	288			217
-	1	-	-	4	5	-	189			098	289			218
-	1	-	-	4	-	6	190			099	290			219
-	1	-	-	4	-	-	191			100	291			220
-	1	-	-	-	5	6	192			101	292			221
-	1	-	-	-	5	-	193			102	293			222
-	1	-	-	-	-	6	194			103	294			223
-	1	-	-	-	-	-	195			104	295			224
-	-	2	3	4	5	6	196			105	296			225
-	-	2	3	4	5	-	197			106	297			226
-	-	2	3	4	-	6	198			107	298			227
-	-	2	3	4	-	-	199			108	299			228

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