

MicroStrain LXRS Wireless Base Station EEPROM Map					
EEPROM Address (Decimal)	EEPROM Address (Hexidecimal)	Nomenclature	Valid Ranges	Factory Init Value	Remarks
0	0	Reserved	-	65535	-
2	2	Reserved	-	65535	-
4	4	Reserved	-	65535	-
6	6	Reserved	-	65535	-
8	8	Reserved	-	65535	-
10	A	Reserved	-	65535	-
12	C	Reserved	-	65535	-
14	E	Reserved	-	65535	-
16	10	Reserved	-	65535	-
18	12	Reserved	-	65535	-
20	14	Reserved	-	65535	-
22	16	Reserved	-	65535	-
24	18	Reserved	-	65535	-
26	1A	Reserved	-	65535	-
28	1C	Reserved	-	65535	-
30	1E	Reserved	-	65535	-
32	20	Reserved	-	65535	-
34	22	Reserved	-	65535	-
36	24	Reserved	-	65535	-
38	26	Reserved	-	65535	-
40	28	Reserved	-	65535	-
42	2A	Reserved	-	65535	-
44	2C	Reserved	-	65535	-
46	2E	Reserved	-	65535	-
48	30	Reserved	-	65535	-
50	32	Base Station Address	4660	-	Do Not Change
52	34	Reserved	-	65535	-
54	36	Reserved	-	65535	-
56	38	Reserved	-	65535	-

58	3A	Reserved	-	65535	-
60	3C	Reserved	-	65535	-
62	3E	Reserved	-	65535	-
64	40	Reserved	-	65535	-
66	42	Reserved	-	65535	-
68	44	Reserved	-	65535	-
70	46	Reserved	-	65535	-
72	48	Reserved	-	65535	-
74	4A	Reserved	-	65535	-
76	4C	Reserved	-	65535	-
78	4E	Reserved	-	65535	-
80	50	Reserved	-	65535	-
82	52	Reserved	-	65535	-
84	54	Reserved	-	65535	-
86	56	Reserved	-	65535	-
88	58	Reserved	-	65535	-
90	5A	RF Channel #	11-26	25	Sets the radio frequency channel. Note that the base must be reset for the change to take effect.
92	5C	RF Channel B #	11-26	25	custom
94	5E	Transmit Power Level	-	65535	fixed
96	60	Beacon Clock Source	0-3	2	0 – No beacon, 1 – timer based on internal RTC, 2 (default) – Pulse per second (pps) from internal RTC, 3 – External PPS
98	62	Reserved	-	65535	-
100	64	Reserved	-	65535	-
102	66	Reserved	-	65535	-
104	68	Reserved	-	65535	-
106	6A	Reserved	-	65535	-
108	6C	FW Version	1-65535	xxx	Lists the current base station firmware version. This location is automatically populated by the microcontroller on startup. The value can be read as MSB.LSB. For example, if the location reads 1028, the firmware version is 4.04.
110	6E	Reserved	-	65535	-

112	70	Model Number	2615,2616,2621,1010,1020,1030,1040,1050	xxx	Identifies the base station type. Programmed at factory, do not change. Legacy Values: 2615 - USB Base Station, 2621 - WSDA-Base New Values: 2615 - USB Base Station, 1010 - Analog WSDA-Base, 1020 - RS232 WSDA-Base, 103 - RS422/RS485 WSDA-Base, 1040 - USB WSDA-Base, 1050 - Ethernet WSDA-Base
114	72	Serial ID	0-9999	xxxx	Lists the 4 digit serial ID for a base station. Combine with the model number to obtain the full serial number, i.e. A V-Link with serial ID 735 would have a SN = 2513-0735
116	74	Reserved	-	65535	-
118	76	Radio ID	31	31	Currently 31 for all 2.4 GHz base stations.
120	78	Microcontroller ID	32-35	3	PIC18F4620, 32 PIC18F46K20, 33 PIC18F47K90, 34 PIC18F66K90, 35
122	7A	Reserved	-	65535	-
124	7C	Reserved	-	65535	-
126	7E	Reserved	-	65535	-
128	80	Port 1 Node Address	1-65534	65535	This describes the node address associated with analog out, port 1. (Analog Out Basestation only)
130	82	Port 1 Node Channel	1-65534	65535	This describes which node channel to associate with analog out, port 1. (Analog Out Basestation only)
132	84	Port 1 Max Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the max float value for port 1. Default is the LSW of a QNAN. (Analog Out Basestation only)
134	86	Port 1 Max Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the max float value for port 1. Default is the MSW of a QNAN. (Analog Out Basestation only)
136	88	Port 1 Min Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the min float value for port 1. Default is the LSW of a QNAN. (Analog Out Basestation only)
138	8A	Port 1 Min Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the min float value for port 1. Default is the MSW of a QNAN. (Analog Out Basestation only)

140	8C	Port 2 Node Address	1-65534	65535	This describes the node address associated with analog out, port 2. (Analog Out Basestation only)
142	8E	Port 2 Node Channel	1-65534	65535	This describes which node channel to associate with analog out, port 2. (Analog Out Basestation only)
144	90	Port 2 Max Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the max float value for port 2. Default is the LSW of a QNAN. (Analog Out Basestation only)
146	92	Port 2 Max Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the max float value for port 2. Default is the MSW of a QNAN. (Analog Out Basestation only)
148	94	Port 2 Min Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the min float value for port 2. Default is the LSW of a QNAN. (Analog Out Basestation only)
150	96	Port 2 Min Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the min float value for port 2. Default is the MSW of a QNAN. (Analog Out Basestation only)
152	98	Port 3 Node Address	1-65534	65535	This describes the node address associated with analog out, port 3. (Analog Out Basestation only)
154	9A	Port 3 Node Channel	1-65534	65535	This describes which node channel to associate with analog out, port 3. (Analog Out Basestation only)
156	9C	Port 3 Max Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the max float value for port 3. Default is the LSW of a QNAN. (Analog Out Basestation only)
158	9E	Port 3 Max Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the max float value for port 3. Default is the MSW of a QNAN. (Analog Out Basestation only)
160	A0	Port 3 Min Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the min float value for port 3. Default is the LSW of a QNAN. (Analog Out Basestation only)
162	A2	Port 3 Min Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the min float value for port 3. Default is the MSW of a QNAN. (Analog Out Basestation only)
164	A4	Port 4 Node Address	1-65534	65535	This describes the node address associated with analog out, port 4. (Analog Out Basestation only)
166	A6	Port 4 Node Channel	1-65534	65535	This describes which node channel to associate with analog out, port 4. (Analog Out Basestation only)

168	A8	Port 4 Max Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the max float value for port 4. Default is the LSW of a QNAN. (Analog Out Basestation only)
170	AA	Port 4 Max Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the max float value for port 4. Default is the MSW of a QNAN. (Analog Out Basestation only)
172	AC	Port 4 Min Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the min float value for port 4. Default is the LSW of a QNAN. (Analog Out Basestation only)
174	AE	Port 4 Min Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the min float value for port 4. Default is the MSW of a QNAN. (Analog Out Basestation only)
176	B0	Port 5 Node Address	1-65534	65535	This describes the node address associated with analog out, port 1. (Analog Out Basestation only)
178	B2	Port 5 Node Channel	1-65534	65535	This describes which node channel to associate with analog out, port 5. (Analog Out Basestation only)
180	B4	Port 5 Max Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the max float value for port 5. Default is the LSW of a QNAN. (Analog Out Basestation only)
182	B6	Port 5 Max Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the max float value for port 5. Default is the MSW of a QNAN. (Analog Out Basestation only)
184	B8	Port 5 Min Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the min float value for port 5. Default is the LSW of a QNAN. (Analog Out Basestation only)
186	BA	Port 5 Min Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the min float value for port 5. Default is the MSW of a QNAN. (Analog Out Basestation only)
188	BC	Port 6 Node Address	1-65534	65535	This describes the node address associated with analog out, port 6. (Analog Out Basestation only)
190	BE	Port 6 Node Channel	1-65534	65535	This describes which node channel to associate with analog out, port 6. (Analog Out Basestation only)
192	C0	Port 6 Max Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the max float value for port 6. Default is the LSW of a QNAN. (Analog Out Basestation only)

194	C2	Port 6 Max Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the max float value for port 6. Default is the MSW of a QNAN. (Analog Out Basestation only)
196	C4	Port 6 Min Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the min float value for port 6. Default is the LSW of a QNAN. (Analog Out Basestation only)
198	C6	Port 6 Min Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the min float value for port 6. Default is the MSW of a QNAN. (Analog Out Basestation only)
200	C8	Port 7 Node Address	1-65534	65535	This describes the node address associated with analog out, port 7. (Analog Out Basestation only)
202	CA	Port 7 Node Channel	1-65534	65535	This describes which node channel to associate with analog out, port 7. (Analog Out Basestation only)
204	CC	Port 7 Max Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the max float value for port 7. Default is the LSW of a QNAN. (Analog Out Basestation only)
206	CE	Port 7 Max Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the max float value for port 7. Default is the MSW of a QNAN. (Analog Out Basestation only)
208	D0	Port 7 Min Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the min float value for port 7. Default is the LSW of a QNAN. (Analog Out Basestation only)
210	D2	Port 7 Min Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the min float value for port 7. Default is the MSW of a QNAN. (Analog Out Basestation only)
212	D4	Port 8 Node Address	1-65534	65535	This describes the node address associated with analog out, port 8. (Analog Out Basestation only)
214	D6	Port 8 Node Channel	1-65534	65535	This describes which node channel to associate with analog out, port 8. (Analog Out Basestation only)
216	D8	Port 8 Max Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the max float value for port 8. Default is the LSW of a QNAN. (Analog Out Basestation only)
218	DA	Port 8 Max Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the max float value for port 8. Default is the MSW of a QNAN. (Analog Out Basestation only)

220	DC	Port 8 Min Float (Least Significant Word)	1-65534	65535	If converting from a float, we need to know the min float value for port 8. Default is the LSW of a QNAN. (Analog Out Basestation only)
222	DE	Port 8 Min Float (Most Significant Word)	1-65534	32767	If converting from a float, we need to know the min float value for port 8. Default is the MSW of a QNAN. (Analog Out Basestation only)
224	E0	Analog Out Enable	0-1	1	Write a 0 to disable analog out. Write a 1 to enable analog out. (Analog Out base station only)
226	E2	Analog Out Timeout	0-65535	0	This is the number of seconds before an analog out port times out. Write a 0 here to disable.
228	E4	Analog Out Timeout Voltage (LSW)	0-65535	0	This is the (float LSW) voltage the port will go to once it times out. The range is from 0 to 3.0 V.
230	E6	Analog Out Timeout Voltage (MSW)	0-16448	0	This is the (float MSW) voltage the port will go to once it times out. The range is from 0 to 3.0 V.
232	E8	Button 1 Long Press Function	0-7	65535	This tells the Base Station which function to use when a long press is applied to Button 1.
234	EA	Button 1 Long Press Node Address	1-65535	65535	This is the node address associated with a long press on Button 1.
236	EC	Button 1 Short Press Function	0-7	65535	This tells the Base Station which function to use when a short press is applied to Button 1.
238	EE	LED Action Control	0-6	6	Firmware 2.27 and above (bit 0 = 1 -> toggles LED on RX'd packet, bit 1 = 1 -> toggles LED on beacon transmit, bit 2 = 1 -> toggles red LED when packet from another base station is RX'd)
240	F0	Baudrate Selection	-	65535	Firmware 2.31 and above (0=115200,4=4800,else = 921600)
242	F2	Reset Counter	-	65535	Records the number of times that the base station has been reset, either via soft reset or power-cycling. Requires FW 2.11+
244	F4	Reserved	-	65535	-
246	F6	Reserved	-	65535	-
248	F8	Reserved	-	65535	-
250	FA	Cycle Power	0,1,2	65535	Allows for wireless reset of base station and base radio. Write a value of 1 to reset the base. Write a value of 2 to reset the radio. Resets take effect immediately.

252	FC	Base Station Test	LSB=7-10, MSB=1-255	65535	<p>This memory location allows access to base station test and debug features.</p> <p>Radio Test Modes: After writing one of the specific test values listed below, the hardware must be reset to enter radio test mode. The base or node will then activate test mode for a fixed period of time, after which the node or base will resume normal operations.</p> <p>LSB Value (decimal) Function</p> <p>07 Transmit non-modulated carrier for 500 seconds. 08 Transmit modulated carrier for 500 seconds. 09 Transmit non-modulated carrier for X seconds. 10 Transmit modulated carrier for X seconds. != {7,8,9,10} No radio test.</p> <p>* If the LSB is set to {9,10} then the value of the MSB will be read to determine X, the programmable duration. X can range from 1-255 seconds. For example, if you want a non-modulated radio test that lasts for 150 seconds, you program the MSB=150, and the LSB=9. If you are using Agile-Link to write this two byte value, you must first convert it to decimal: i.e. <math>150 * 256 + 9 = 38409</math></p> <p>Hardware Test: Write 0xDEAD into this location, reset, and the base</p>
254	FE	RS232 MODE	-	65535	<p>0=rs485,1=RS232 no parity,2=even parity,else RS232 no parity</p>