

			100G to 100G				
Lower Memory Map			1M 33AWG	1M 30AWG	2M 30AWG	2M 26AWG	3M 26AWG
Address	Name	Description	2829040-2	2829040-4	2829040-6	2829040-7	2829040-8
0	Identifier	Value 11h: QSFP28	0Dh	0Dh	0Dh	0Dh	0Dh
1	Revision Compliance	Value 07h: SFF-8636 Rev 2.5	07h	07h	07h	07h	07h
2	Status	Status	06h	06h	06h	06h	06h
3	Interrupt Flags (19 Bytes)	Channel Monitor interrupt flags	00h	00h	00h	00h	00h
4		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
5		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
6		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
7		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
8		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
9		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
10		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
11		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
12		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
13		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
14		Channel Monitor interrupt flags	00h	00h	00h	00h	00h
15		Reserved	00h	00h	00h	00h	00h
16		Reserved	00h	00h	00h	00h	00h
17		Reserved	00h	00h	00h	00h	00h
18		Reserved	00h	00h	00h	00h	00h
19		Vendor Specific	00h	00h	00h	00h	00h
20		Vendor Specific	00h	00h	00h	00h	00h
21		Vendor Specific	00h	00h	00h	00h	00h
22	Module Monitors (12 Bytes)	Internally measured temperature	00h	00h	00h	00h	00h
23		Internally measured temperature	00h	00h	00h	00h	00h
24		Reserved	00h	00h	00h	00h	00h
25		Reserved	00h	00h	00h	00h	00h
26		Internally measured supply voltage	00h	00h	00h	00h	00h
27		Internally measured supply voltage	00h	00h	00h	00h	00h
28		Reserved	00h	00h	00h	00h	00h
29		Reserved	00h	00h	00h	00h	00h
30		Vendor Specific	00h	00h	00h	00h	00h
31		Vendor Specific	00h	00h	00h	00h	00h
32		Vendor Specific	00h	00h	00h	00h	00h
33		Vendor Specific	00h	00h	00h	00h	00h
34	Channel Monitors (48 Bytes)	Channel Monitors	00h	00h	00h	00h	00h
35		Channel Monitors	00h	00h	00h	00h	00h
36		Channel Monitors	00h	00h	00h	00h	00h
37		Channel Monitors	00h	00h	00h	00h	00h
38		Channel Monitors	00h	00h	00h	00h	00h
39		Channel Monitors	00h	00h	00h	00h	00h
40		Channel Monitors	00h	00h	00h	00h	00h
41		Channel Monitors	00h	00h	00h	00h	00h
42		Channel Monitors	00h	00h	00h	00h	00h
43		Channel Monitors	00h	00h	00h	00h	00h
44		Channel Monitors	00h	00h	00h	00h	00h
45		Channel Monitors	00h	00h	00h	00h	00h
46		Channel Monitors	00h	00h	00h	00h	00h
47		Channel Monitors	00h	00h	00h	00h	00h
48		Channel Monitors	00h	00h	00h	00h	00h
49		Channel Monitors	00h	00h	00h	00h	00h
50		Channel Monitors	00h	00h	00h	00h	00h
51		Channel Monitors	00h	00h	00h	00h	00h
52		Channel Monitors	00h	00h	00h	00h	00h
53		Channel Monitors	00h	00h	00h	00h	00h
54		Channel Monitors	00h	00h	00h	00h	00h
55		Channel Monitors	00h	00h	00h	00h	00h
56		Channel Monitors	00h	00h	00h	00h	00h
57		Channel Monitors	00h	00h	00h	00h	00h
58		Reserved Channel Monitors	00h	00h	00h	00h	00h
59		Reserved Channel Monitors	00h	00h	00h	00h	00h
60		Reserved Channel Monitors	00h	00h	00h	00h	00h
61		Reserved Channel Monitors	00h	00h	00h	00h	00h
62		Reserved Channel Monitors	00h	00h	00h	00h	00h
63		Reserved Channel Monitors	00h	00h	00h	00h	00h
64		Reserved Channel Monitors	00h	00h	00h	00h	00h
65		Reserved Channel Monitors	00h	00h	00h	00h	00h
66		Reserved Channel Monitors	00h	00h	00h	00h	00h
67		Reserved Channel Monitors	00h	00h	00h	00h	00h
68		Reserved Channel Monitors	00h	00h	00h	00h	00h
69		Reserved Channel Monitors	00h	00h	00h	00h	00h
70		Reserved Channel Monitors	00h	00h	00h	00h	00h
71		Reserved Channel Monitors	00h	00h	00h	00h	00h
72		Reserved Channel Monitors	00h	00h	00h	00h	00h
73		Reserved Channel Monitors	00h	00h	00h	00h	00h
74		Vendor Specific	00h	00h	00h	00h	00h
75		Vendor Specific	00h	00h	00h	00h	00h
76		Vendor Specific	00h	00h	00h	00h	00h
77		Vendor Specific	00h	00h	00h	00h	00h
78		Vendor Specific	00h	00h	00h	00h	00h
79		Vendor Specific	00h	00h	00h	00h	00h
80		Vendor Specific	00h	00h	00h	00h	00h
81		Vendor Specific	00h	00h	00h	00h	00h
82	Reserved (4 Bytes)	Reserved	00h	00h	00h	00h	00h
83		Reserved	00h	00h	00h	00h	00h
84		Reserved	00h	00h	00h	00h	00h
85		Reserved	00h	00h	00h	00h	00h
86	Control (12 Bytes)	Control functions	00h	00h	00h	00h	00h
87		Control functions	00h	00h	00h	00h	00h
88		Control functions	00h	00h	00h	00h	00h
89		Control functions	00h	00h	00h	00h	00h
90		Control functions	00h	00h	00h	00h	00h
91		Control functions	00h	00h	00h	00h	00h

EEPROM Maps QSFP28 to QSFP28 Straight Assembly (InfiniBand EDR)

			100G to 100G				
Lower Memory Map			1M 33AWG	1M 30AWG	2M 30AWG	2M 26AWG	3M 26AWG
Address	Name	Description	2829040-2	2829040-4	2829040-6	2829040-7	2829040-8
92		Control functions	00h	00h	00h	00h	00h
93		Control functions	00h	00h	00h	00h	00h
94		Control functions	00h	00h	00h	00h	00h
95		Control functions	00h	00h	00h	00h	00h
96		Control functions	00h	00h	00h	00h	00h
97		Control functions	00h	00h	00h	00h	00h
98		Control functions	00h	00h	00h	00h	00h
99	Reserved	Reserved	00h	00h	00h	00h	00h
100	Module and Channel Masks (7 Bytes)	Hardware interrupt pin masking bits	00h	00h	00h	00h	00h
101		Hardware interrupt pin masking bits	00h	00h	00h	00h	00h
102		Hardware interrupt pin masking bits	00h	00h	00h	00h	00h
103		Hardware interrupt pin masking bits	00h	00h	00h	00h	00h
104		Hardware interrupt pin masking bits	00h	00h	00h	00h	00h
105		Vendor Specific	00h	00h	00h	00h	00h
106		Vendor Specific	00h	00h	00h	00h	00h
107	Reserved (12 bytes)	Reserved	00h	00h	00h	00h	00h
108		Free Side Device Properties	00h	00h	00h	00h	00h
109		Free Side Device Properties	01h	01h	01h	01h	02h
110		Free Side Device Properties	38h	38h	38h	38h	38h
111		Free Side Device Properties	00h	00h	00h	00h	00h
112		Free Side Device Properties	00h	00h	00h	00h	00h
113		Free Side Device Properties	10h	10h	10h	10h	10h
114		Reserved	00h	00h	00h	00h	00h
115		Reserved	00h	00h	00h	00h	00h
116		Reserved	00h	00h	00h	00h	00h
117		Reserved	00h	00h	00h	00h	00h
118		Reserved	00h	00h	00h	00h	00h
119	Reserved (4 bytes)	Password Change Entry Area	00h	00h	00h	00h	00h
120		Password Change Entry Area	00h	00h	00h	00h	00h
121		Password Change Entry Area	00h	00h	00h	00h	00h
122		Password Change Entry Area	00h	00h	00h	00h	00h
123	Reserved (4 bytes)	Password Entry Area	00h	00h	00h	00h	00h
124		Password Entry Area	00h	00h	00h	00h	00h
125		Password Entry Area	00h	00h	00h	00h	00h
126		Password Entry Area	00h	00h	00h	00h	00h
127	Page Select Byte	Value of 00h indicates upper memory Page 00h is mapped to Bytes 128-255	00h	00h	00h	00h	00h

EEPROM Maps QSFP28 to QSFP28 Straight Assembly (InfiniBand EDR)

			100G to 100G				
Upper Memory Map 00h			1M 33AWG	1M 30AWG	2M 30AWG	2M 26AWG	3M 26AWG
Address	Name	Description	2829040-2	2829040-4	2829040-6	2829040-7	2829040-8
128	Identifier (1 Byte)	Identifier type of serial transceiver	0Dh	0Dh	0Dh	0Dh	0Dh
129	Ext. Identifier (1 Byte)	Extended identifier of serial transceiver	00h	00h	00h	00h	00h
130	Connector (1 Byte)	Code for connector type	23h	23h	23h	23h	23h
131	Transceiver (8 Bytes)	Code for electronic or optical comp ability	88h	88h	88h	88h	88h
132		Code for electronic or optical comp ability	00h	00h	00h	00h	00h
133		Code for electronic or optical comp ability	00h	00h	00h	00h	00h
134		Code for electronic or optical comp ability	00h	00h	00h	00h	00h
135		Code for electronic or optical comp ability	00h	00h	00h	00h	00h
136		Code for electronic or optical comp ability	00h	00h	00h	00h	00h
137		Code for electronic or optical comp ability	00h	00h	00h	00h	00h
138		Code for electronic or optical comp ability	00h	00h	00h	00h	00h
139	Encoding (1 Byte)	Code for serial encoding algorithm	00h	00h	00h	00h	00h
140	BR nominal (1 Byte)	Nominal bit rate units of 100 Mbps	FFh	FFh	FFh	FFh	FFh
141	Ext. Rate Sel Comp (1 Byte)	Tags for extended rate select compliance	00h	00h	00h	00h	00h
142	Length SMF (1 Byte)	Link length supported for SM fiber in km	00h	00h	00h	00h	00h
143	Length E-50um (1 Byte)	Link length supported for EBW 50/125um fiber units of 2m	00h	00h	00h	00h	00h
144	Length 50um (1 Byte)	Link length supported for 50/125um fiber units of 1m	00h	00h	00h	00h	00h
145	Length 62.5um (1 Byte)	Link length supported for 62.5/125um fiber units of 1m	00h	00h	00h	00h	00h
146	Length Copper (1 Byte)	Link length supported copper units of 1m	01h	01h	02h	02h	03h
147	Device Technology (1 Byte)	Device technology	A0h	A0h	A0h	A0h	A0h
148	Vendor Name (16 Bytes)	QSFP28 Vendor name (ASCII)	T'	T'	T'	T'	T'
149		QSFP28 Vendor name (ASCII)	E'	E'	E'	E'	E'
150		QSFP28 Vendor name (ASCII)	,	,	,	,	,
151		QSFP28 Vendor name (ASCII)	C'	C'	C'	C'	C'
152		QSFP28 Vendor name (ASCII)	o'	o'	o'	o'	o'
153		QSFP28 Vendor name (ASCII)	n'	n'	n'	n'	n'
154		QSFP28 Vendor name (ASCII)	n'	n'	n'	n'	n'
155		QSFP28 Vendor name (ASCII)	e'	e'	e'	e'	e'
156		QSFP28 Vendor name (ASCII)	c'	c'	c'	c'	c'
157		QSFP28 Vendor name (ASCII)	t'	t'	t'	t'	t'
158		QSFP28 Vendor name (ASCII)	i'	i'	i'	i'	i'
159		QSFP28 Vendor name (ASCII)	v'	v'	v'	v'	v'
160		QSFP28 Vendor name (ASCII)	i'	i'	i'	i'	i'
161		QSFP28 Vendor name (ASCII)	t'	t'	t'	t'	t'
162		QSFP28 Vendor name (ASCII)	y'	y'	y'	y'	y'
163		QSFP28 Vendor name (ASCII)	20h	20h	20h	20h	20h
164	Ext. Transceiver (1 Byte)	Extended transceiver codes for InfiniBand	1Fh	1Fh	1Fh	1Fh	1Fh
165	Vendor OUI (3 Bytes)	QSFP28 vendor IEEE vendor company ID	00h	00h	00h	00h	00h
166		QSFP28 vendor IEEE vendor company ID	40h	40h	40h	40h	40h
167		QSFP28 vendor IEEE vendor company ID	20h	20h	20h	20h	20h
168	Vendor PN (16 Bytes)	Part number provided by QSFP28 vendor (ASCII)	2'	2'	2'	2'	2'
169		Part number provided by QSFP28 vendor (ASCII)	8'	8'	8'	8'	8'
170		Part number provided by QSFP28 vendor (ASCII)	2'	2'	2'	2'	2'
171		Part number provided by QSFP28 vendor (ASCII)	9'	9'	9'	9'	9'
172		Part number provided by QSFP28 vendor (ASCII)	0'	0'	0'	0'	0'
173		Part number provided by QSFP28 vendor (ASCII)	4'	4'	4'	4'	4'
174		Part number provided by QSFP28 vendor (ASCII)	0'	0'	0'	0'	0'
175		Part number provided by QSFP28 vendor (ASCII)	1'	1'	1'	1'	1'
176		Part number provided by QSFP28 vendor (ASCII)	2'	4'	6'	7'	8'
177		Part number provided by QSFP28 vendor (ASCII)	20h	20h	20h	20h	20h
178		Part number provided by QSFP28 vendor (ASCII)	20h	20h	20h	20h	20h
179		Part number provided by QSFP28 vendor (ASCII)	20h	20h	20h	20h	20h
180		Part number provided by QSFP28 vendor (ASCII)	20h	20h	20h	20h	20h
181		Part number provided by QSFP28 vendor (ASCII)	20h	20h	20h	20h	20h
182		Part number provided by QSFP28 vendor (ASCII)	20h	20h	20h	20h	20h
183		Part number provided by QSFP28 vendor (ASCII)	20h	20h	20h	20h	20h
184	Vendor Rev. (2 Bytes)	Revision level for partnumber provided by vendor (ASCII)	D'	D'	D'	D'	D'
185		Revision level for partnumber provided by vendor (ASCII)	20h	20h	20h	20h	20h
186	Copper Cable Attenuation	copper cable attenuation in dB at 2.5 GHz (Byte 186) and 5.0 GHz (Byte 187)	08h	04h	05h	06h	05h
187		copper cable attenuation in dB at 2.5 GHz (Byte 186) and 5.0 GHz (Byte 187)	08h	05h	07h	07h	07h
188	Copper Cable Attenuation	copper cable attenuation in dB at 7.0 GHz (Byte 188) and 12GHz (Byte 189)	09h	06h	09h	08h	09h
189		copper cable attenuation in dB at 7.0 GHz (Byte 188) and 12GHz (Byte 189)	0Bh	0Ah	0Eh	0Ah	0Dh
190	Max. Case Temp (1 Byte)	Maximum case temperature in degrees C	00h	00h	00h	00h	00h
191	CC_BASE (1 Byte)	Check code for Base ID fields (addresses 12-190)	#CheckSum(128,190)	#CheckSum(128,190)	#CheckSum(128,190)	#CheckSum(128,190)	#CheckSum(128,190)
192	Options (4 Bytes)	Rate select, Tx disable, Tx fault, LOS	00h	00h	00h	00h	00h
193		Rate select, Tx disable, Tx fault, LOS	00h	00h	00h	00h	00h
194		Rate select, Tx disable, Tx fault, LOS	00h	00h	00h	00h	00h
195		Rate select, Tx disable, Tx fault, LOS	00h	00h	00h	00h	00h
196	Vendor SN (16 Bytes)	Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
197		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
198		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
199		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
200		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
201		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
202		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
203		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
204		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
205		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
206		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
207		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
208		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
209		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
210		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
211		Serial number provided by vendor (ASCII)	#SN	#SN	#SN	#SN	#SN
212	Date Code (8 Bytes)	Vendor's manufacturing date code	#YearLowMSB	#YearLowMSB	#YearLowMSB	#YearLowMSB	#YearLowMSB
213		Vendor's manufacturing date code	#YearLowLSB	#YearLowLSB	#YearLowLSB	#YearLowLSB	#YearLowLSB
214		Vendor's manufacturing date code	#MonthMSB	#MonthMSB	#MonthMSB	#MonthMSB	#MonthMSB
215		Vendor's manufacturing date code	#MonthLSB	#MonthLSB	#MonthLSB	#MonthLSB	#MonthLSB
216		Vendor's manufacturing date code	#DayMSB	#DayMSB	#DayMSB	#DayMSB	#DayMSB
217		Vendor's manufacturing date code	#DayLSB	#DayLSB	#DayLSB	#DayLSB	#DayLSB
218		Vendor's manufacturing date code	20h	20h	20h	20h	20h
219		Vendor's manufacturing date code	20h	20h	20h	20h	20h
220	Diag Monitor Type (1 Byte)	Indicates which type of diagnostic monitoring is implemented	00h	00h	00h	00h	00h
221	Enhanced Options (1 Byte)	Indicates which optional enhanced features are implemented	00h	00h	00h	00h	00h

			100G to 100G				
Upper Memory Map 00h			1M 33AWG	1M 30AWG	2M 30AWG	2M 26AWG	3M 26AWG
Address	Name	Description	2829040-2	2829040-4	2829040-6	2829040-7	2829040-8
222	Reserved (1 Byte)	Reserved	67h	67h	67h	67h	67h
223	CC_EXT (1 Byte)	Check code for the extended ID fields (addresses 192- 222)	#Checksum(192,222)	#Checksum(192,222)	#Checksum(192,222)	#Checksum(192,222)	#Checksum(192,222)
224	Vendor Specific (32 Bytes)	Vendor Specific EEPROM	#MfgInfo1	#MfgInfo1	#MfgInfo1	#MfgInfo1	#MfgInfo1
225		Vendor Specific EEPROM	#MfgInfo2	#MfgInfo2	#MfgInfo2	#MfgInfo2	#MfgInfo2
226		Vendor Specific EEPROM	#MfgInfo3	#MfgInfo3	#MfgInfo3	#MfgInfo3	#MfgInfo3
227		Vendor Specific EEPROM	#MfgInfo4	#MfgInfo4	#MfgInfo4	#MfgInfo4	#MfgInfo4
228		Vendor Specific EEPROM	#MfgInfo5	#MfgInfo5	#MfgInfo5	#MfgInfo5	#MfgInfo5
229		Vendor Specific EEPROM	#MfgInfo6	#MfgInfo6	#MfgInfo6	#MfgInfo6	#MfgInfo6
230		Vendor Specific EEPROM	#MfgInfo7	#MfgInfo7	#MfgInfo7	#MfgInfo7	#MfgInfo7
231		Vendor Specific EEPROM	#MfgInfo8	#MfgInfo8	#MfgInfo8	#MfgInfo8	#MfgInfo8
232		Vendor Specific EEPROM	#MfgInfo9	#MfgInfo9	#MfgInfo9	#MfgInfo9	#MfgInfo9
233		Vendor Specific EEPROM	#MfgInfo10	#MfgInfo10	#MfgInfo10	#MfgInfo10	#MfgInfo10
234		Vendor Specific EEPROM	#MfgInfo11	#MfgInfo11	#MfgInfo11	#MfgInfo11	#MfgInfo11
235		Vendor Specific EEPROM	#MfgInfo12	#MfgInfo12	#MfgInfo12	#MfgInfo12	#MfgInfo12
236		Vendor Specific EEPROM	#MfgInfo13	#MfgInfo13	#MfgInfo13	#MfgInfo13	#MfgInfo13
237		Vendor Specific EEPROM	#MfgInfo14	#MfgInfo14	#MfgInfo14	#MfgInfo14	#MfgInfo14
238		Vendor Specific EEPROM	#MfgInfo15	#MfgInfo15	#MfgInfo15	#MfgInfo15	#MfgInfo15
239		Vendor Specific EEPROM	#MfgInfo16	#MfgInfo16	#MfgInfo16	#MfgInfo16	#MfgInfo16
240		Vendor Specific EEPROM	#MfgInfo17	#MfgInfo17	#MfgInfo17	#MfgInfo17	#MfgInfo17
241		Vendor Specific EEPROM	#MfgInfo18	#MfgInfo18	#MfgInfo18	#MfgInfo18	#MfgInfo18
242		Vendor Specific EEPROM	00h	00h	00h	00h	00h
243		Vendor Specific EEPROM	00h	00h	00h	00h	00h
244		Vendor Specific EEPROM	00h	00h	00h	00h	00h
245		Vendor Specific EEPROM	00h	00h	00h	00h	00h
246		Vendor Specific EEPROM	00h	00h	00h	00h	00h
247		Vendor Specific EEPROM	00h	00h	00h	00h	00h
248		Vendor Specific EEPROM	00h	00h	00h	00h	00h
249		Vendor Specific EEPROM	00h	00h	00h	00h	00h
250		Vendor Specific EEPROM	00h	00h	00h	00h	00h
251		Vendor Specific EEPROM	00h	00h	00h	00h	00h
252		Vendor Specific EEPROM	00h	00h	00h	00h	00h
253		Vendor Specific EEPROM	00h	00h	00h	00h	00h
254		Vendor Specific EEPROM	00h	00h	00h	00h	00h
255		Vendor Specific EEPROM	00h	00h	00h	00h	00h