I3C Device Characteristics Register

С	Device ID 🔻	-Y	▼	Function by Categor	▼	▼	
Dec Hex	Binary	Function	Common category	Secondary category	Tertiary category	Category explanation	Added to DCR
0 00 0	0000000	Generic (for v1.0 Devices)	Medical			All v1.0 Devices use this ID	18-Nov-2016
1 01 0	0 0 0 0 0 0 1	Do Not Use	Medical				
2 02 0	0 0 0 0 0 1 0	Heart Rate Sensor	Medical	Law Enforcement	Sensor	Medical, health, biometrics 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	25-Jan-2017
3 03 0	0 0 0 0 0 1 1	ECG sensor	Medical		Sensor		25-Jan-2017
4 04 0	0 0 0 0 1 0 0	EKG sensor	Medical		Sensor	Madical backb bisussbuiss	25-Jan-2017
5 05 0	0 0 0 0 1 0 1	GSR (Galvanic Skin Response)	Medical	Law Enforcement	Sensor	Medical, health, blometrics	25-Jan-2017
6 06 0	0 0 0 0 1 1 0	Breathalyzer	Medical	Automotive Ignition Inte	Law Enforcement	All v1.0 Devices use this ID All v1.0 Devices use this ID Medical, health, biometrics Includes displays, alarms, indicators etc to provide a means to interact with the system involving human senses and providing a means to interact with the system Inertial navigation. Pedometers. Can wrk in conjunction with GPS. Avionics (roll, pitch, yaw, azimuth). Stabilized platform for inertial guidance. Environmental monitoring. Weather station. Monitor CO2, CO, RADON levels.	25-Jan-2017
7 07 0	0 0 0 0 1 1 1	Glucose (Blood Glucose)	Medical	Health	Sensor		25-Jan-2017
8 08 0	0 0 0 1 0 0 0	Oxymeter (Blood Oxygenation)	Medical	Health	Sensor		25-Jan-2017
32 20 0	0 1 0 0 0 0 0		Human Machine Interface				
33 21 0			Human Machine Interface		Sensor		25-Jan-2017
34 22 0		Gesture (Touchless)	Human Machine Interface		Sensor	Includes displays, alarms, indicators etc to	25-Jan-2017
35 23 0		,	Human Machine Interface		Sensor	provide a means to interact with the system	25-Jan-2017
36 24 0		• .	Human Machine Interface		Sensor	involving human senses and providing a	25-Jan-2017
37 25 0			Human Machine Interface		Transducer	means to interact with the system	25-Jan-2017
38 26 0		Gesture (Acoustic Ultrasonic)	Human Machine Interface		Combination		25-Jan-2017
39 27 0			Human Machine Interface		Transducer		25-Jan-2017
	1 0 0 0 0 0 0		Navigation				
65 41 0			Navigation	Industrial Mechanical	Sensor	Inertial navigation Pedometers Can wrk in	25-Jan-2017
66 42 0			Navigation	Industrial Mechanical	Sensor	_	25-Jan-2017
67 43 0			Navigation	Industrial	Sensor	Includes displays, alarms, indicators etc to provide a means to interact with the system involving human senses and providing a means to interact with the system 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	25-Jan-2017
68 44 0		Accel/Gyro Combo	Navigation	Industrial Mechanical	Sensor		25-Jan-2017
69 45 0			Navigation	Industrial Mechanical	Sensor		25-Jan-2017
70 46 0		Accel/Gyro/Mag Combo	Navigation	Industrial Mechanical	Sensor		25-Jan-2017
	1 1 0 0 0 0 0		Environment				
97 61 0)	Environment		Sensor		25-Jan-2017
98 62 0			Environment		Sensor		25-Jan-2017
99 63 0		•	Environment		Sensor	Environmental monitoring. Weather station.	25-Jan-2017
100 64 0			Environment		Sensor	Monitor CO2, CO, RADON levels.	25-Jan-2017
101 65 0			Environment		Sensor		25-Jan-2017
102 66 0			Environment		Sensor		25-Jan-2017
103 67 0			Environment	Communication	Sensor		25-Jan-2017
	0 0 0 0 0 0 0		Industrial, Automotive		_		
129 81 1		-	Industrial, Automotive		Sensor		25-Jan-2017
130 82 1			Industrial, Automotive	Color Matching	Sensor		25-Jan-2017
131 83 1	0 0 0 0 0 1 1	Accelerometer (Mechanical Shock)	Industrial, Automotive		Sensor		25-Jan-2017

		Device ID ▼	.₹	▼	Function by Categor	▼	▼	
Dec	Hex	Binary	Function	Common category	Secondary category	Tertiary category	Category explanation	Added to DCR
132	84	1 0 0 0 0 1 0 0	Oxygen sensor	Industrial, Automotive		Sensor	Industrial use sensors, mechanical actuators,	25-Jan-2017
133	85	1 0 0 0 0 1 0 1	Mass flow sensor	Industrial, Automotive		Sensor	servo's, proximity detectors, etc for	25-Jan-2017
134	86		Switch or Solenoid Valve Control	Industrial, Automotive		Actuator	industrial automation, robotics. Automotive.	25-Jan-2017
135	87	1 0 0 0 0 1 1 1		Industrial, Automotive		Sensor	The date has a decomposition, reported. A decomposition	25-Jan-2017
136	88		Position sensor	Industrial, Automotive		Sensor		25-Jan-2017
137	89	1 0 0 0 1 0 0 1	Throttle Control	Industrial, Automotive		Actuator		25-Jan-2017
138	8A	1 0 0 0 1 0 1 0	Force/Stress sensor	Industrial, Automotive	Human Machine Interface	Sensor		19-Feb-2020
160	A0	1 0 1 0 0 0 0 0	Do Not Use	Communication			Data communication, transmit, receive, emit,	
161	A1		NFC (Near Field Communication)	Communication		Combination (Sensor/Transducer)	detect.for relatively low data-rate communication. Communication can be	25-Jan-2017
162	_	1 0 1 0 0 0 1 0		Communication		Combination	through various means to suit the	25-Jan-2017
		1 0 1 0 0 0 1 1		Communication		Combination	application which might include RF, Optical (including IR), acoustic.	25-Jan-2017
164	A4	1 0 1 0 0 1 0 0	RF link for ranging and localization	Communication		Combination	Data communication with moderate communication speed primarily used for ranging and localization by measuring the distance between 2 or more devices using a radio link	2-Feb-2024
184	+	1 0 1 1 1 0 0 0		Security			Tadio ilik	
186		1 0 1 1 1 0 1 0	Security device	Security	ETSI UICC	SSP Rel.17 and onward UICC Rel.18 and onward	Security device used for network authentication in mobile communication networks	16-Feb-2022 6-Dec-2023
107	ВВ		Security device	Security	ETSLOICC	OICC Rei.18 and onward	A Secure Element (SE) is a microprocessor	6-Dec-2023
188			,	Security	eSE [Embedded Secure Element]	Combination	chip that can store sensitive data and run secure apps.	2-Feb-2024
192		1 1 0 0 0 0 0 0		Other				
193	C1	1 1 0 0 0 0 0 1		Other				25-Jan-2017
194	C2	1 1 0 0 0 0 1 0		Other				25-Jan-2017
195	С3	1 1 0 0 0 0 1 1	Bus Monitor	Other				25-Jan-2017
196	C4	1 1 0 0 0 1 0 0	Secondary Controller	Other			Includes cases related to bus services such as	25-Jan-2017
197	C5	1 1 0 0 0 1 0 1	Memory	Other			monitoring, expansion to other busses,	25-Jan-2017
198	C6	1 1 0 0 0 1 1 0	Microcontroller	Other			hubs, bridges, computing, memory devices.	25-Jan-2017
199	C7	1 1 0 0 0 1 1 1	PMIC	Other			These cases don't fall under the general	25-Jan-2017

	Device ID ▼	-7		Function by Categor	-	▼	
Dec He	x Binary	Function	Common category	Secondary category	Tertiary category	Category explanation	Added to DCR
200 C8	1 1 0 0 1 0 0	IO Expander	Other				25-Jan-2017
201 C9	1 1 0 0 1 0 0 1	Debug Target System (TS)	Other				19-Feb-2020
202 CA		Debug and Test System (DTS)	Other				19-Feb-2020
203 CE	3 1 1 0 0 1 0 1 1	Dual Role Debug System (TS and DTS)	Other				19-Feb-2020
204 CC	1 1 0 0 1 1 0 0	МСТР	Other				8-Oct-2020
.08 DO	1 1 0 1 0 0 0 0	Reserved for JESD403 DTI = 0000	JEDEC				21-Apr-2021
.09 D1	1 1 0 1 0 0 1	Reserved for JESD403 DTI = 0001	JEDEC				21-Apr-2021
10 D2	1 1 0 1 0 0 1 0	Thermal Sensor - First	JEDEC				21-Apr-2021
11 D3	3 1 1 0 1 0 0 1 1	Reserved for JESD403 DTI = 0011	JEDEC				21-Apr-2021
12 D4	1 1 0 1 0 1 0 0	Differential DIMM Memory First Buffer	JEDEC				21-Apr-2021
13 D5	5 1 1 0 1 0 1 0 1	Differential DIMM Memory Second Buffer	JEDEC			JEDEC DDR5 SidebandBus (JESD403) Compliant Devices, used on the DDR5 DIMMs.	21-Apr-2021
14 D6	5 1 1 0 1 0 1 1 0	Thermal Sensor - Second	JEDEC				21-Apr-2021
15 D7	1 1 0 1 0 1 1	Reserved for JESD403 DTI = 0111	JEDEC				21-Apr-2021
16 D8	3 1 1 0 1 1 0 0 0	PMIC - Second	JEDEC				21-Apr-2021
17 D9	0 1 1 0 1 1 0 0 1	PMIC - First	JEDEC				21-Apr-2021
18 DA	1 1 0 1 1 0 1 0	SPD Hub	JEDEC				21-Apr-2021
19 DE	3 1 1 0 1 1 0 1 1	Registered Clock Divider	JEDEC				21-Apr-2021
20 DO	1 1 0 1 1 1 0 0	PMIC - Third	JEDEC				21-Apr-2021
21 DE	0 1 1 0 1 1 1 0 1	Reserved for JESD403 DTI = 1101	JEDEC				21-Apr-2021
22 DE	1 1 0 1 1 1 0	Reserved for JESD403 DTI = 1110	JEDEC				21-Apr-2021
223 DF	1 1 0 1 1 1 1	Reserved for JESD403 DTI = 1111	JEDEC				21-Apr-2021
24 EC	1 1 1 0 0 0 0 0	Do Not Use	Generic			The generic category is for cases which don't	
25 E1		FPGA/PLD Configuration	Generic			fall neatly into any of the others. The	25-Jan-2017
26 E2	1 1 1 0 0 1 0	Camera Photometer	Generic	Sensor		example I picked is FPGA configuration. Note	25-Jan-2017
27 E3	1 1 1 0 0 1 1	Camera Shutter Control	Generic	Actuator		that some FPGA's can be configured over an	25-Jan-2017
28 E4	1 1 1 0 0 1 0 0	Camera Focus Control	Generic	Actuator		I2C bus. However, the higher data-rate of	25-Jan-2017