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**By Standard**

Category / Standard #	2019			2020												Total to Date	% Total	% Category	Trending
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
<b>IEEE 802(R): Overview and Architecture</b>	<b>165</b>	<b>136</b>	<b>166</b>	<b>89</b>	<b>130</b>	<b>181</b>	<b>166</b>	<b>180</b>	<b>142</b>	<b>163</b>	<b>118</b>	<b>122</b>	-	-	-	<b>3,107</b>	<b>2.6%</b>	<b>100.0%</b>	
802-2014	76	59	76	50	55	92	87	96	76	79	63	62				1,727	1.5%	55.6%	
802c-2017	53	50	51	28	53	53	48	52	45	59	37	40				750	0.6%	24.1%	
802d-2017	36	27	39	11	22	36	31	32	21	25	18	20				630	0.5%	20.3%	
<b>IEEE 802.1: Bridging and Management</b>	<b>1,369</b>	<b>1,245</b>	<b>1,411</b>	<b>1,206</b>	<b>1,522</b>	<b>1,608</b>	<b>1,299</b>	<b>1,354</b>	<b>1,216</b>	<b>1,245</b>	<b>985</b>	<b>1,113</b>	-	-	-	<b>29,016</b>	<b>24.6%</b>	<b>100.0%</b>	
802.1AB-2016	60	82	61	38	67	86	65	90	53	104	66	57				1,714	1.5%	5.9%	
802.1AC-2016	37	44	34	23	36	44	32	38	41	44	31	18				821	0.7%	2.8%	
802.1AC-2016/Cor 1-2018	35	27	32	13	27	33	21	25	25	30	22	17				418	0.4%	1.4%	
802.1AE-2006																507	0.4%	1.7%	
802.1AE-2018						147	150	113	122	115	108	118				873	0.7%	3.0%	
802.1AEbn-2011																194	0.2%	0.7%	
802.1AEbw-2013																272	0.2%	0.9%	
802.1AEcg-2017																261	0.2%	0.9%	
802.1AR-2009																91	0.1%	0.3%	
802.1AR-2018	40	48	63	50	52	48	54	62	41	68	75	52				889	0.8%	3.1%	
802.1AS-2011	137	125	99	112	137	141	124	105	106	49	49					2,461	2.1%	8.5%	
802.1as-2011/cor 1-2013	49	36	43	43	46	56	40	35	44	19	1					855	0.7%	2.9%	
802.1as-2011/cor 2-2015	90	63	62	68	78	92	71	52	53	34	12					1,389	1.2%	4.8%	
802.1AX-2014	67	34	58	54	53	71	44	32	22	8	6					1,049	0.9%	3.6%	
802.1ax-2014/cor 1-2017	22	25	25	16	20	25	30	21	19	13	2					521	0.4%	1.8%	
802.1BA-2011	40	44	39	43	36	34	45	34	27	32	22	44				871	0.7%	3.0%	
802.1ba-2011/cor 1-2016	31	29	22	34	28	27	20	26	19	24	10	24				611	0.5%	2.1%	
802.1BR-2012	20	19	25	15	17	22	11	29	16	19	20	14				552	0.5%	1.9%	
802.1CB-2017	68	61	76	65	96	81	73	83	74	65	64	60				1,215	1.0%	4.2%	
802.1CF-2019			64	32	53	32	18	21	16	28	29	28				321	0.3%	1.1%	
802.1CM-2018	67	58	73	53	86	67	66	54	75	58	37	49				1,118	0.9%	3.9%	
802.1D-2004	57	72	83	84	85	72	82	97	69	61	70	55				1,732	1.5%	6.0%	
802.1Q-2014																824	0.7%	2.8%	
802.1Q-2014/Cor 1-2015																86	0.1%	0.3%	
802.1Q-2018	334	258	253	236	282	385	253	299	311	349	278	290				5,025	4.3%	17.3%	
802.1Qbv-2015																62	0.1%	0.2%	
802.1Qcc-2018	54	70	81	52	85	77	62	83	50	71	43	59				1,082	0.9%	3.7%	
802.1Qcd-2015																77	0.1%	0.3%	
802.1Qch-2017																56	0.0%	0.2%	
802.1Qcp-2018	24	35	30	20	35	29	19	29	18	28	19	25				460	0.4%	1.6%	
802.1Qcy-2019			36	23	31	39	19	26	15	26	21	21				257	0.2%	0.9%	
802.1X-2010	104	84	82	79	116											1,521	1.3%	5.2%	
802.1X-2020												182				182	0.2%	0.6%	
802.1Xbx-2014	33	31	39	31	35											575	0.5%	2.0%	
802.1Xck-2018			31	22	21											74	0.1%	0.3%	

IEEE 802.3: Ethernet	1,365	1,228	1,487	1,561	1,971	1,760	1,895	1,800	1,747	1,660	1,628	1,974	-	-	-	37,710	32.0%	100.0%	
802.3.1-2013	49	63	68	29	37	32	47	50	44	31	42	44				1,129	1.0%	3.0%	
802.3.2-2019			24	55	70	62	71	82	72	75	59	54				624	0.5%	1.7%	
802.3-2015																5,413	4.6%	14.4%	
802.3-2015/Cor 1-2017																574	0.5%	1.5%	
802.3-2018	1,316	1,165	977	1,131	1,441	1,282	1,364	1,227	1,251	1,202	1,210	1,158				22,260	18.9%	59.0%	
802.3bn-2016																218	0.2%	0.6%	
802.3bp-2016																496	0.4%	1.3%	
802.3bq-2016																277	0.2%	0.7%	
802.3br-2016																291	0.2%	0.8%	
802.3bt-2018			115	96	109	130	144	96	87	103	95	152				1,127	1.0%	3.0%	
802.3bu-2016																253	0.2%	0.7%	
802.3bv-2017																216	0.2%	0.6%	
802.3bw-2015																602	0.5%	1.6%	
802.3by-2016																726	0.6%	1.9%	
802.3bz-2016																354	0.3%	0.9%	
802.3cb-2018			74	62	66	67	60	74	57	70	72	61				663	0.6%	1.8%	
802.3cc-2017			1													86	0.1%	0.2%	
802.3cd-2018			228	188	248	187	209	271	236	179	150	163				2,059	1.7%	5.5%	
802.3cg-2019																164	0.1%	0.4%	
802.3cn-2019																104	0.1%	0.3%	
802.3cq-2020																74	0.1%	0.2%	
IEEE 802.11: Wireless LANs	1,355	1,332	1,173	1,193	1,270	1,192	1,215	1,241	1,109	1,078	936	1,152	-	-	-	29,270	24.8%	100.0%	
802.11-2016	956	920	758	776	932	802	836	860	793	772	646	827				21,519	18.3%	73.5%	
802.11ah-2016	143	131	130	126	90	117	98	119	81	98	80	116				2,861	2.4%	9.8%	
802.11ai-2016	57	60	67	67	50	66	55	51	48	50	50	43				1,349	1.1%	4.6%	
802.11aj-2018	56	62	62	66	48	54	65	55	43	36	27	42				995	0.8%	3.4%	
802.11ak-2018	44	52	53	40	47	39	42	37	33	28	36	30				748	0.6%	2.6%	
802.11aq-2018	99	107	103	118	103	114	119	119	111	94	97	94				1,798	1.5%	6.1%	
IEEE 802.15: Wireless PANs	657	609	868	700	757	704	669	721	560	531	410	488	-	-	-	14,846	12.6%	100.0%	
802.15.10-2017	8	15	26	16	12	15	14	13	13	16	11	5				353	0.3%	2.4%	
802.15.10a-2019			25	9	14	11	6	11	15	14	8	10				123	0.1%	0.8%	
802.15.3-2016	43	25	37	26	27	41	33	29	27	21	26	24				708	0.6%	4.8%	
802.15.3d-2017	49	59	66	46	52	45	34	28	45	30	38	47				765	0.6%	5.2%	
802.15.3e-2017	25	18	28	23	27	21	19	20	14	12	15	9				459	0.4%	3.1%	
802.15.3f-2017	19	14	28	11	15	23	7	17	17	14	16	11				276	0.2%	1.9%	
802.15.4-2015	282	232	234	244	270	200	238	218	153	160	59	106				5,270	4.5%	35.5%	
802.15.4-2015/Cor 1-2018																83	0.1%	0.6%	
802.15.4n-2016	11	10	21	11	11	11	8	17	10	10	11	5				278	0.2%	1.9%	
802.15.4q-2016	23	31	30	14	18	27	19	31	15	14	16	7				572	0.5%	3.9%	
802.15.4s-2018	28	13	28	21	20	21	14	17	15	10	14	7				332	0.3%	2.2%	
802.15.4t-2017	15	13	25	21	16	19	13	21	10	10	12	8				427	0.4%	2.9%	
802.15.4u-2016	19	18	29	15	19	22	20	25	19	22	14	11				452	0.4%	3.0%	
802.15.4v-2017	27	23	42	22	41	32	20	31	18	15	12	13				718	0.6%	4.8%	
802.15.4x-2019			63	49	54	44	64	52	42	38	23	36				465	0.4%	3.1%	
802.15.5-2009	13	12	13	14	13	8	10	20	9	11	8	15				273	0.2%	1.8%	
802.15.6-2012	58	106	74	59	45	48	60	48	52	46	28	39				1,417	1.2%	9.5%	
802.15.7-2011																528	0.4%	3.6%	
802.15.7-2018			44	56	68	86	66	79	61	69	71	106				706	0.6%	4.8%	
802.15.8-2017	26	12	33	26	23	15	13	29	15	13	14	19				338	0.3%	2.3%	
802.15.9-2016	11	8	22	17	12	15	11	15	10	6	14	10				303	0.3%	2.0%	

<b>IEEE 802.16: Broadband Wireless MANs</b>	<b>85</b>	<b>74</b>	<b>108</b>	<b>62</b>	<b>104</b>	<b>69</b>	<b>103</b>	<b>96</b>	<b>84</b>	<b>131</b>	<b>72</b>	<b>76</b>	-	-	-	<b>2,084</b>	<b>1.8%</b>	<b>100.0%</b>	
802.16.1-2012	5	8	13	13	13	5	6	19	11	23	15	12				301	0.3%	14.4%	
802.16.1a-2013	14	9	12	10	11	8	13	17	12	18	8	4				282	0.2%	13.5%	
802.16.1b-2012	7	8	12	5	8	4	7	7	3	11	7	3				199	0.2%	9.5%	
802.16.2-2004	6	15	11	7	10	12	5	16	13	8	9	7				254	0.2%	12.2%	
802.16-2012																85	0.1%	4.1%	
802.16-2017	53	34	60	27	62	40	72	37	45	71	33	50				809	0.7%	38.8%	
802.16n-2013																21	0.0%	1.0%	
802.16p-2012																28	0.0%	1.3%	
802.16q-2015																36	0.0%	1.7%	
802.16s-2017																69	0.1%	3.3%	
<b>IEEE 802.19: TV White Space Coexistence Methods</b>	<b>12</b>	<b>7</b>	<b>20</b>	<b>5</b>	<b>13</b>	<b>5</b>	<b>10</b>	<b>8</b>	<b>12</b>	<b>9</b>	<b>8</b>	<b>9</b>	-	-	-	<b>219</b>	<b>0.19%</b>	<b>100.0%</b>	
802.19.1-2014																36	0.0%	16.4%	
802.19.1-2018	12	7	20	5	13	5	10	8	12	9	8	9				183	0.2%	83.6%	
<b>IEEE 802.21: Media Independent Handover Services</b>	<b>50</b>	<b>29</b>	<b>40</b>	<b>21</b>	<b>42</b>	<b>20</b>	<b>39</b>	<b>47</b>	<b>20</b>	<b>21</b>	<b>13</b>	<b>23</b>	-	-	-	<b>632</b>	<b>0.5%</b>	<b>100.0%</b>	
802.21.1-2017	15	9	10	4	10	6	15	25	8	8	4	9				240	0.2%	38.0%	
802.21-2017	21	13	16	11	19	9	16	14	6	8	4	7				258	0.2%	40.8%	
802.21-2017/Cor 1-2017	14	7	14	6	13	5	8	8	6	5	5	7				134	0.1%	21.2%	
<b>IEEE 802.22: Wireless Regional Area Networks</b>	<b>58</b>	<b>43</b>	<b>63</b>	<b>33</b>	<b>55</b>	<b>36</b>	<b>27</b>	<b>43</b>	<b>46</b>	<b>25</b>	<b>10</b>	<b>26</b>	-	-	-	<b>1,012</b>	<b>0.9%</b>	<b>100.0%</b>	
802.22.1-2010	11	9	11	9	8	4	2	10	6	7	2	5				166	0.1%	16.4%	
802.22.2-2012	10	12	13	7	9	7	7	10	11	6	7	8				213	0.2%	21.0%	
802.22-2011	17	10	13	5	20	8	5	8	13	3						271	0.2%	26.8%	
802.22a-2014	9	5	11	5	5	6	2	5	5	4		8				149	0.1%	14.7%	
802.22b-2015	11	7	15	7	13	11	11	10	11	5	1	5				213	0.2%	21.0%	
<b>Total</b>	<b>5,116</b>	<b>4,703</b>	<b>5,336</b>	<b>4,870</b>	<b>5,864</b>	<b>5,575</b>	<b>5,423</b>	<b>5,490</b>	<b>4,936</b>	<b>4,863</b>	<b>4,180</b>	<b>4,983</b>	-	-	-	<b>117,896</b>	<b>100.0%</b>	<b>100.0%</b>	

By User Type

User Type	2019			2020									Total to Date	% Total	Trending
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
Academia/Research	191	165	193	161	380	214	336	360	216	150	183	208	5,317	4.5%	
Students	215	161	101	157	274	326	394	230	173	168	174	245	4,936	4.2%	
Curious Citizen	257	208	556	149	289	164	193	266	166	224	202	128	4,911	4.2%	
Network equipment manufacturer	140	144	231	157	165	191	239	120	152	186	157	176	4,247	3.6%	
System Designer	144	71	94	164	213	205	188	273	204	153	117	168	3,859	3.3%	
Embedded Software Developer	87	101	125	116	226	110	94	73	120	101	49	100	2,837	2.4%	
Commercial User	50	93	48	70	221	221	141	83	78	77	86	119	2,433	2.1%	
Network Software Developer/Manufacturer	101	41	165	55	65	37	54	150	36	96	74	144	1,833	1.6%	
Standards Developer	57	23	56	53	65	123	51	28	22	42	73	70	1,443	1.22%	
Verification Engineer	17	39	20	39	72	48	77	100	132	54	42	50	1,104	0.9%	
Systems Administrator	31	40	24	25	42	80	35	35	18	45	28	53	1,061	0.90%	
System/Semiconductor Company	32	15	18	42	40	30	62	22	53	45	38	27	913	0.77%	
IP Developer	21	41	25	36	36	51	30	40	50	23	57	30	765	0.65%	
IP Company	52	11	14	22	22	24	17	15	14	33	12	37	635	0.54%	
Research Scientist	62	28	23	8	27	16	35	25	19	51	10	14	591	0.50%	
Network silicon manufacturer	9	5	4	52	16	34	11	11	46	41	13	26	562	0.48%	
Security Expert	13	7	4	111	18	8	20	4	10	16	50	18	450	0.4%	
Private network service provider	7	3	18	14	10	12	1	9	9	3	47	4	358	0.30%	
Public network service provider	8	7	3	20	15	43	25	22	7	11	11	14	284	0.24%	
IP Integrator	2	-	41	11	4	20	19	16	4	11	18	10	262	0.22%	
Attorney/Legal	6	4	7	17	11	13	17	14	10	8	10	20	233	0.20%	
EDA Company	25	-	14	1	10	29	3	9	20	4	5	14	224	0.19%	
Journalist/Analyst/Author	23	12	5	18	2	20	5	1	7	18	7	8	206	0.17%	
Government	10	3	12	1	6	3	6	5	1	5	4	6	169	0.14%	
Common Criteria Lab	17	3	-	-	-	2	1	4	1	65	-	3	130	0.11%	
Government User	5	3	2	9	-	4	6	7	9	2	16	6	106	0.09%	
Private/N42 only	-	-	-	2	6	1	-	10	16	1	-	3	76	0.06%	
EDA Flow Developer	1	3	3	-	10	-	-	-	-	-	-	-	76	0.06%	
Military User	-	8	2	2	-	5	3	-	-	4	3	1	61	0.05%	
Government user (non-Military)	5	2	-	-	1	5	-	3	1	1	-	-	56	0.05%	
Printer Manufacturer	-	-	-	-	2	1	1	6	6	-	10	-	42	0.04%	
Safety/Risk Manager	-	1	-	3	3	1	-	1	3	1	4	1	33	0.03%	
EDA Tool Developer	-	-	-	-	-	8	-	3	1	-	-	1	29	0.02%	
Federal/N42 only	-	-	-	-	-	-	-	2	-	-	6	-	10	0.01%	
Public/N42 only	-	-	1	-	-	-	-	-	-	-	1	-	3	0.00%	
Other *	31	39	131	50	66	27	34	36	68	173	35	82	1,316	1.1%	
Unknown	34	51	63	71	123	54	55	74	46	76	147	54	2,455	2.1%	
Institutional usage	3,463	3,371	3,333	#####	#####	#####	#####	#####	#####	#####	#####	#####	73,870	62.7%	
<b>Total</b>	<b>5,116</b>	<b>4,703</b>	<b>5,336</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>117,896</b>	<b>100.0%</b>	

* Other Breakout	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	2020 YTD	% Total
Other (Please explain)-Independent developer										110	18		128	0.11%
Other (Please explain)-engineer	1	-	2	1			3	2	1	13	2	6	43	0.0%
Other (Please explain)-Research				11					8				19	0.02%
Other (Please explain)-Embedded Hardware Designer					18								18	0.02%
Other (Please explain)-Software Engineer, Entertainment Controls										18			18	0.02%
Other (Please explain)-Occasional Collaborator in Design of TLC Systems												18	18	0.02%
Other (Please explain)-CSV SME in biopharmaceutical company									17				17	0.01%
Other (Please explain)-patent research	-	-	-	3					12				23	0.02%
Other (Please explain)-contractor	-	-	-									15	16	0.01%
Other (Please explain)-those who are interested				12									12	0.01%
Other (Please explain)-Signal Integrity Engineer - Component Manufacturer					12								12	0.01%
Other (Please explain)-Problem Solver				4	6			2					12	0.01%
Other (Please explain)-Business Analyst	-	1	-					1		7			9	0.01%
Other (Please explain)-Precision equipment manufacturer								7					7	0.01%
Other (Please explain)-Librarian							1	6					7	0.01%
Other (Please explain)-Software Engineer	2	4	6		1		2		4				22	0.02%
Other (Please explain)-trading company							5					2	7	0.01%
Other (Please explain)-Apprentice					6								6	0.01%
Other (Please explain)-networking instructor				2		4							6	0.01%
Other (Please explain)-Learning						2	4						6	0.01%
Other (Please explain)-Author								2	4				6	0.01%
Other (Please explain)-Instructor	-	-	-		5							1	9	0.01%
Other (Please explain)-HW design engineer												6	6	0.01%
Other (Please explain)-semiconductor distributor						5							6	0.01%
Other (Please explain)-interested								5					5	0.00%
Other (Please explain)-network engineer							4			1			6	0.01%
Other (Please explain)-Public official										5			5	0.00%
Other (Please explain)-Open Source Software Contributor												5	5	0.00%
Other (Please explain)-server si simulation												5	5	0.00%
Other (Please explain)-For Lighting and Emergency Lighting product for PoE										4			4	0.00%
Other (Please explain)-innovation community										4			4	0.00%
Other (Please explain)-Protocol analyzer developer	-	3	-					1			2	1	8	0.01%
Other (Please explain)-institute									2				4	0.00%
Other (Please explain)-Electronic Parts Manufacturer												4	4	0.00%
Other (Please explain)-PCB CAD Design Enginner												4	4	0.00%
Other (Please explain)-Automotive	-	-	-		3								4	0.00%
Other (Please explain)-Human Factors Engineer Medical Devices				3									3	0.00%
Other (Please explain)-Laboratory						3							3	0.00%
Other (Please explain)-Wikipedia member				3									3	0.00%
Other (Please explain)-Network Consultant	-	-	1		2		1						5	0.00%
Other (Please explain)-personal use	-	-	-			2		1					4	0.00%
Other (Please explain)-Hardware Engenieer									3				3	0.00%
Other (Please explain)-IT Project Manager working on Security Projects									3				3	0.00%
Other (Please explain)-other									3				3	0.00%
Other (Please explain)-Content Development										3			3	0.00%
Other (Please explain)-Developer										3			3	0.00%
Other (Please explain)-Automotive Software Engineer											3		3	0.00%
Other (Please explain)-consultants									1			2	3	0.00%
Other (Please explain)-None												3	3	0.00%
Other (Please explain)-Factory Automation Engineer						2							2	0.00%

* Other Breakout	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	2020 YTD	% Total
Other (Please explain)-Nonprofit						2							2	0.00%
Other (Please explain)-test equipment developer						2							3	0.00%
Other (Please explain)-Certification Authority software developer						2							2	0.00%
Other (Please explain)-International Organisation						2							2	0.00%
Other (Please explain)-Product Owner	-	3	-			2							5	0.00%
Other (Please explain)-Project Manager						2							2	0.00%
Other (Please explain)-a							2						2	0.00%
Other (Please explain)-Signal Integrity Connector Development							2						2	0.00%
Other (Please explain)-university higher education						2							2	0.00%
Other (Please explain)-Franklin county career tech center				2									2	0.00%
Other (Please explain)-Network System Architect				2									2	0.0%
Other (Please explain)-Electric Device Manufacturer (Crystal resonator and oscillator)	-	-	1	2									3	0.00%
Other (Please explain)-Electrical Designer								2					2	0.00%
Other (Please explain)-FPGA Developer								2					2	0.00%
Other (Please explain)-Telecom consultant								2					2	0.00%
Other (Please explain)-Consultant	1	-	-			1		1					28	0.02%
Other (Please explain)-Person Learning									2				2	0.00%
Other (Please explain)-Productmanager									2				2	0.00%
Other (Please explain)-Independent contractor										2			2	0.00%
Other (Please explain)-Trainer	-	14	-			1				1			29	0.02%
Other (Please explain)-Network & Telecommunications Engineering							1					1	2	0.00%
Other (Please explain)-Embedded software engineer												2	2	0.00%
Other (Please explain)-Product Manager												2	2	0.00%
Other (Please explain)-Self Learner and Researcher												2	2	0.00%
Other (Please explain)-Digital Engineer												2	2	0.00%
Other (Please explain)-Cloud							1						1	0.00%
Other (Please explain)-EE							1						1	0.00%
Other (Please explain)-Faculty (Professor)							1						1	0.00%
Other (Please explain)-IEEE member							1						1	0.00%
Other (Please explain)-A/V Integrator									1				1	0.00%
Other (Please explain)-Connector									1				1	0.00%
Other (Please explain)-National Standards Organisation for ETSI									1				1	0.00%
Other (Please explain)-Senior Security Consultant									1				1	0.00%
Other (Please explain)-student	6	-	-						1				11	0.01%
Other (Please explain)-Web developer									1				1	0.00%
Other (Please explain)-General interest	5	-	-					1					7	0.01%
Other (Please explain)-Telecommunications Engineer								1					1	0.00%
Other (Please explain)-IT							1						1	0.00%
Other (Please explain)-Signal Integrity Engineer	-	2	-				1						3	0.00%
Other (Please explain)-Measuring instrument manufacturer	-	-	-							1			4	0.00%
Other (Please explain)-Optical device manufacturer										1			1	0.00%
Other (Please explain)-Software Developer	-	-	5				1						6	0.01%
Other (Please explain)-Individual											1		3	0.00%
Other (Please explain)-Network Architect											1		1	0.00%
Other (Please explain)-Personal use											1		1	0.00%
Other (Please explain)-Teacher							1						1	0.00%
Other (Please explain)-Test engineer	-	-	-				1						4	0.00%
Other (Please explain)-Electronics engineer						1							1	0.00%
Other (Please explain)-Field Application Engineer for Integrated Circuits.						1							1	0.00%
Other (Please explain)-Product						1							1	0.00%
Other (Please explain)-Distributor of network ICs	-	-	-									1	4	0.00%
Other (Please explain)-Electronic Hardware Developer												1	1	0.00%
Other (Please explain)-jsdkf												1	1	0.00%

	* Other Breakout	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	2020 YTD	% Total
Other (Please explain)-Personal Research													1	1	0.00%
Other (Please explain)-Prefer not to say													1	1	0.00%
Other (Please explain)-Teacher in network technologies													1	1	0.00%
Other (Please explain)-Distributor	-	-	-			1								3	0.00%
Other (Please explain)-Hobbyist	-	-	-			1								10	0.01%
Other (Please explain)-hobbyist						1								2	0.00%
Other (Please explain)-Consultancy					1									1	0.00%
Other (Please explain)-Engineer working in engineering design company					1									1	0.0%
Other (Please explain)-Manufacturer for electrical connectors used in Industrial Ethernet (M8, M12)					1									1	0.00%
Other (Please explain)-Quality Management					1									1	0.00%
Other (Please explain)-Performance Consultant	-	-	-		1									5	0.00%
Other (Please explain)-study the ethernet	-	-	-											39	0.03%
Other (Please explain)-Individual - Engineer	-	-	-											28	0.02%
Other (Please explain)-	-	-	-											24	0.02%
Other (Please explain)-IT														24	0.02%
Other (Please explain)-just for study														14	0.01%
Other (Please explain)-xuesheng														14	0.01%
Other (Please explain)-I&C Design Engineer	-	-	-											13	0.01%
Other (Please explain)-Hardware	-	-	-											12	0.01%
Other (Please explain)-Factory Automation Product Supplier	-	-	-											10	0.01%
Other (Please explain)-Hardware Developer	-	-	-											9	0.01%
Other (Please explain)-Open Source Developer	-	-	-											8	0.01%
Other (Please explain)-retired	-	-	-											8	0.01%
Other (Please explain)-Industrial Control Systems Integrator		1	-	-										9	0.01%
Other (Please explain)-Hardware Engineer IOT														8	0.01%
Other (Please explain)-Integrator	-	-	-											7	0.01%
Other (Please explain)-Technical Support Engineer	-	-	-											7	0.01%
Other (Please explain)-Environmental Testing Lab	-	-	-											7	0.01%
Other (Please explain)-Value Added Distributor	-	-	-											6	0.01%
Other (Please explain)-Test & Measurement Company														6	0.01%
Other (Please explain)-Embedded	-	-	-											5	0.00%
Other (Please explain)-Personal	-		3	-										8	0.01%
Other (Please explain)-Automotive company	-	-	-											5	0.00%
Other (Please explain)-Connector Company	-	-	-											5	0.00%
Other (Please explain)-Design Engineer														5	0.00%
Other (Please explain)-IT Architect and integrator														5	0.00%
Other (Please explain)-Study	-	-		1										6	0.01%
Other (Please explain)-Telco Consultant	-	-	-											4	0.00%
Other (Please explain)-Translator	-	-	-											4	0.00%
Other (Please explain)-Electronics Engineer	-	-	-											4	0.00%
Other (Please explain)-Semiconductor	-	-	-											4	0.00%
Other (Please explain)-Audio developer	-	-	-											4	0.00%
Other (Please explain)-Individual user	-	-	-											4	0.00%
Other (Please explain)-Staff Engineer	-	-	-											4	0.00%
Other (Please explain)-Testing and Certification	-	-	-											4	0.00%
Other (Please explain)-Mining	-	-	-											4	0.00%
Other (Please explain)-Free lancer														4	0.00%
Other (Please explain)-KIPO's affiliated agency	-	-	-											3	0.00%
Other (Please explain)-Self learning	-	-	-											3	0.00%
Other (Please explain)-Trainee	-	-	-											3	0.00%
Other (Please explain)-Tech/Autonomous Vehicles	-	-	-											3	0.00%
Other (Please explain)-Functional Safety Engineer	-	-	-											3	0.00%
Other (Please explain)-Public Transport	-	-	-											3	0.00%





* Other Breakout	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	2020 YTD	% Total
Other (Please explain)-Development Engineer													1	0.00%
Other (Please explain)-Solutions Engineer													1	0.00%
Other (Please explain)-An engineer in individual capacity													1	0.00%
Other (Please explain)-Distribute FPGA													1	0.00%
Other (Please explain)-Reseller of wireless device													1	0.00%
Other (Please explain)-Testing													1	0.00%
Other (Please explain)-private person	-	-	70										70	0.06%
Other (Please explain)-Engineering Company	-	-	22										22	0.02%
Other (Please explain)-2345	-	-	10										10	0.01%
Other (Please explain)-EMC Engineer	-	-	6										6	0.01%
Other (Please explain)-Security Systems Technician	-	4	-										4	0.00%
Other (Please explain)-Product Development Specialist (Implements new services and technologies)	-	3	-										3	0.00%
Other (Please explain)-Constultant	2	-	-										2	0.00%
Other (Please explain)-Field Application Engineer(FAE) in distributor of semiconductor device	2	-	-										2	0.00%
Other (Please explain)-IC distributor	2	-	-										2	0.00%
Other (Please explain)-Lighting Specifier	2	-	-										2	0.00%
Other (Please explain)-Test Automation Developer (Tx/Rx PHY Automated Test Suite)	2	-	-										2	0.00%
Other (Please explain)-car maker Renault	1	-	-										1	0.00%
Other (Please explain)-Component Manufacturer	1	-	-										1	0.00%
Other (Please explain)-practice	1	-	-										1	0.00%
Other (Please explain)-123	-	-	1										1	0.00%
Other (Please explain)-Development Engineer for Electric Parts	-	-	1										1	0.00%
Other (Please explain)-Test and Measurement manufacturer	-	-	1										1	0.00%
Other (Please explain)-Telecom Test Equipment	-	1	-										1	0.00%
Other (Please explain)-Developer for Real-Time process control systems													1	0.00%
Other (Please explain)-Unaffiliated to any company													1	0.00%
Other (Please explain)-Wireless Sales Engineer													1	0.00%
Other (Please explain)-Technology Support													1	0.00%
Other (Please explain)-test													1	0.00%
<b>Other Total</b>	<b>31</b>	<b>39</b>	<b>131</b>	<b>50</b>	<b>66</b>	<b>27</b>	<b>34</b>	<b>36</b>	<b>68</b>	<b>173</b>	<b>35</b>	<b>82</b>	<b>1,316</b>	<b>1.12%</b>

By Country	2019			2020										Total to Date	% Total	Trending
	Country	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
United States	406	379	690	429	531	470	623	378	454	490	469	487	10,704	9.08%		
China	206	229	383	171	305	363	340	295	257	250	264	303	7,022	5.96%		
Japan	165	116	174	201	121	152	100	122	158	185	142	130	3,478	2.95%		
Germany	72	99	156	127	323	99	106	182	89	58	55	91	2,699	2.29%		
India	33	39	36	89	142	78	114	100	127	99	51	76	1,693	1.44%		
Canada	35	85	20	35	32	47	50	67	64	36	69	47	1,254	1.06%		
United Kingdom	20	5	28	50	140	119	49	58	61	52	36	51	1,208	1.02%		
France	125	58	25	28	65	30	38	47	43	25	38	47	1,168	0.99%		
Taiwan	35	45	14	30	62	45	33	32	38	48	41	43	1,065	0.90%		
Russian Federation	20	11	17	51	113	55	31	7	63	31	51	27	1,027	0.87%		
Italy	7	14	15	8	13	16	9	79	22	28	16	53	608	0.52%		
Australia	42	10	7	21	18	23	9	26	11	12	27	15	536	0.5%		
South Korea	13	4	11	10	24	1	17	15	31	13	16	41	496	0.42%		
Brazil	50	2	-	5	13	17	51	30	16	45	34	16	455	0.39%		
Spain	5	10	49	23	35	16	24	15	42	4	29	29	389	0.33%		
Belgium	18	5	8	5	11	8	15	9	2	29	13	25	367	0.31%		
Sweden	4	13	3	7	24	16	18	15	2	7	16	13	359	0.30%		
Poland	17	15	7	5	24	4	7	26	7	4	24	24	356	0.30%		
Netherlands	4	3	40	36	10	16	13	14	2	6	5	18	339	0.29%		
Switzerland	2	7	1	1	6	45	12	24	9	3	11	17	333	0.28%		
Mexico	3	2	2	6	9	28	11	14	24	15	15	14	308	0.26%		
Israel	14	14	29	10	8	12	4	34	6	16	18	10	301	0.26%		
Portugal	4	-	81	6	1	9	16	4	5	2	6	6	241	0.20%		
Viet Nam	2	4	2		61	13		56	8	13	10		217	0.18%		
Finland	1	3	8	9	24	22	5	6	2	6	13	13	210	0.18%		
Denmark	13	2	2	8	10	12	3	13	2	39	1	15	184	0.16%		
Colombia	-	-	3	34	4	7	7	9	2		3	2	172	0.15%		
Czech Republic	38	-	4	4	10	6	5			1	6	2	165	0.14%		
Macau								161					161	0.14%		
Singapore	10	2	8	3	4	4	7	4	1	3	9	5	154	0.13%		
Norway	5	-	-	2	39	1	26		2	11	3	2	153	0.13%		
Romania	4	2	5	1		12	17	4	2	1	1	2	153	0.13%		
Argentina	22	2	-	5	1	21	15	6	3	6	20	5	136	0.1%		
Ukraine	2	-	-	8	19	4	25	1			1	6	135	0.11%		
Zimbabwe	-	-	-							110	18	1	130	0.11%		
Austria	12	7	1	9	12	14	2	3	4		2	4	119	0.1%		
Latvia	2	1	-	4	1					3			104	0.09%		
South Africa	1	2	6	6	3	2		1	6		18		100	0.08%		
Hong Kong	5	-	3	2		3	3	1	5	14	4		95	0.08%		
United Arab Emirates	27	8	2	3		4	3	3	1			20	90	0.08%		

Country	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total to Date	% Total	Trending
New Zealand	1	1	2	5	2	9	7	6	1	1	3	1	87	0.07%	---
Bolivia	-	-	-							73	1		82	0.07%	---
Chile	-	-	8			1	22	5	5	1	2	18	80	0.07%	---
Luxembourg	2	-	1			2		1					79	0.07%	---
Hungary	4	2	-		6		8	6		4	3	14	77	0.07%	---
Turkey	2	8	1	5	3	3	11	3	4	1		1	73	0.06%	---
Ecuador	21	1	3	5	9	3	2		5				72	0.06%	---
Iceland							71						71	0.06%	---
Egypt	-	1	5		4		2	31					65	0.06%	---
Ireland	1	1	3	2	5	3	8	5	1		6	5	62	0.05%	---
Greece	1	4	-			2	2	1				2	59	0.05%	---
Indonesia	12	4	13	4	3		1		1				57	0.05%	---
Croatia	-	-	1	7	8		3			10			42	0.04%	---
Peru	5	8	-	1					12	3	1	1	39	0.03%	---
Philippines	-	3	-	3	1	3							38	0.03%	---
Korea	-	-	-			27							33	0.03%	---
Malaysia	2	-	-	6		3		1	5		4		32	0.03%	---
Bulgaria	-	3	-	2								1	31	0.03%	---
Serbia	-	-	-				3		7		3		31	0.03%	---
Pakistan	-	-	2	1		1		1		2			28	0.02%	---
Iran	5	-	-				1		3	6	3		27	0.02%	---
Morocco	-	-	1					2	1				24	0.02%	---
Slovenia	-	-	-			6	1					7	23	0.02%	---
Lithuania	-	-	-	1			1			1	1		22	0.02%	---
Saudi Arabia	-	-	-	6		2		1	1				22	0.02%	---
Thailand	2	-	2					6		1			20	0.02%	---
Costa Rica	11	-	-					1				2	17	0.01%	---
Venezuela	-	-	-					1		3			16	0.01%	---
Moldova	-	-	-				1						15	0.01%	---
Belarus	-	-	-		2		2					1	14	0.01%	---
Mauritius	1	-	-				6						14	0.01%	---
Bahrain	-	-	-			5							12	0.01%	---
Nepal									12				12	0.01%	---
Slovakia	-	2	-						3				11	0.01%	---
Algeria	-	-	2		1				2			1	10	0.0%	---
Lebanon	-	-	-			2							10	0.01%	---
Madagascar						10							10	0.01%	---
Cyprus	1	1	-										9	0.01%	---
Cuba	-	1	1			6							8	0.01%	---
Ghana										8			8	0.01%	---
Guatemala	-	-	-			1	1						8	0.01%	---
Honduras	-	-	-			7							8	0.01%	---
Montenegro					5		3						8	0.01%	---
Zambia	1	-	-						2				8	0.01%	---
Bosnia and Herzegovina	-	-	1	5									7	0.01%	---
Jordan							1				2		7	0.01%	---
Malawi	-	-	-										7	0.01%	---
Oman	-	-	-										7	0.01%	---
Botswana	-	2	-		2							2	6	0.01%	---
Estonia											3	1	6	0.01%	---

Country	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total to Date	% Total	Trending
Iraq								4					6	0.01%	
Kenya	3	1	-		2								6	0.01%	
Luxemburg				6									6	0.01%	
Qatar	-	-	-										6	0.01%	
Sri Lanka							2	1					5	0.00%	
Tunisia	-	-	-										5	0.00%	
Armenia							4						4	0.0%	
Burundi	-	-	-										4	0.00%	
Mozambique							4						4	0.00%	
Myanmar	-	-	-						3				4	0.00%	
Nigeria	1	-	-									1	4	0.00%	
Panama	-	-	-						1				4	0.00%	
Tanzania	-	-	-										4	0.00%	
Bangladesh	-	-	-							1			3	0.00%	
Guinea	-	-	-										3	0.00%	
Guyana	-	-	-										3	0.00%	
Kazakhstan	-	-	-			2							3	0.00%	
Timor Leste									3				3	0.00%	
Afghanistan							1					1	2	0.0%	
Angola											2		2	0.0%	
Antarctica											1		2	0.0%	
Bangkok	-	2	-										2	0.00%	
British Virgin Islands													2	0.00%	
Chad					2								2	0.00%	
Dominica							2						2	0.00%	
Ethiopia							1						2	0.00%	
Georgia	-	-	2										2	0.00%	
Grenada	-	-	-										2	0.00%	
Nicaragua				2									2	0.00%	
Papua New Guinea										2			2	0.00%	
Syria									1				2	0.00%	
Aruba					1								1	0.0%	
Bahamas	-	-	-										1	0.0%	
Bavaria				1									1	0.00%	
Cambodia	-	-	1										1	0.00%	
Columbia	1	-	-										1	0.00%	
Dominican Republic							1						1	0.0%	
El Salvador													1	0.00%	
Kosovo						1							1	0.00%	
New Caledonia					1								1	0.00%	
North Korea	-	-	-										1	0.00%	
Palestine	-	-	-										1	0.00%	
Paraguay							1						1	0.00%	
Puerto Rico	-	-	-										1	0.00%	
Turks & Caicos Islands	-	-	-										1	0.00%	
Uruguay													1	0.00%	
Vatican City State	-	-	-										1	0.00%	
Trinidad & Tobago	-	-	-										1	0.00%	
Unknown	3,595	3,460	3,447	3,356	3,589	3,682	3,442	3,553	3,282	3,097	2,656	3,260	77,378	65.6%	
<b>Total</b>	<b>5,116</b>	<b>4,703</b>	<b>5,336</b>	<b>4,870</b>	<b>5,864</b>	<b>5,575</b>	<b>5,423</b>	<b>5,490</b>	<b>4,936</b>	<b>4,863</b>	<b>4,180</b>	<b>4,983</b>	<b>117,896</b>	<b>100.0%</b>	

< includes institutional usage