PRN Signal Number	XB Code Advance (Chips) <sup>i</sup>		Initial XB Code State (Octal) <sup>ii</sup>		PRN Allocations	Orbital Slot	Effective Date
	15	Q5	15	Q5			
1–63	See IS-GPS-705 <sup>iii</sup>		See IS-GPS-705 <sup>iii</sup>		Reserved for GPS	NAVCENi∨	NAVCENiv
64–119	See IS-GPS-705 <sup>iii</sup>		See IS-GPS-705 <sup>III</sup>		Unallocated	N/A	Current
120–158	See I	Below	See Below		Reserved for SBAS	See Below	Updated
159–210	See Below		See Below		Reserved for other GNSS & other applications	See Below	Current
		Reserved for	or Satellite-Ba	sed Augmenta	ation System (SBAS) (PRNs 120	D-158)	
120	2797	6837	15142	15131	EGNOS (INMARSAT 3F2)	15.5 W	Current
121	934	1393	14314	02171	EGNOS (INMARSAT 3F5)	25 E	Active until Apr 2024
122	3023	7383	10305	17637	AUS-NZ (INMARSAT 4F1)	143.5 E	Active until Jan 2019
123	3632	611	17333	10601	EGNOS (ASTRA 5B)	31.5E	Active until Nov 2021
124	1330	4920	00144	00743	EGNOS (Reserved)		Active until Apr 2024
125	4909	5416	15605	07334	SDCM (Luch-5A)	16 W	Active until Dec 2021
126	4867	1611	14104	05524	EGNOS (INMARSAT 4F2)	25 E	Active until Apr 2019
127	1183	2474	01515	00527	GAGAN (GSAT-8)	55 E	Active until Sep 2020
128	3990	118	12453	12755	GAGAN (GSAT-10)	83 E	Active until Sep 2020
129	6217	1382	17364	04202	MSAS (MTSAT-2)iv	145 E	Active until Jan 2020
130	1224	1092	17754	12737	BDSBAS (G6)	80 E	Active until Oct 2020
131	1733	7950	00207	06102	WAAS (Eutelsat 117WB)	117 W	Active until Mar 2028
132	2319	7223	17602	13032	GAGAN (GSAT-15)	93.5 E	Active until Nov 2025

Changes shown in **bold** 

System name (Satellite name)

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Please refer to IS-GPS-705 for published values

PRN Signal Number	XB Code Advance (Chips) <sup>i</sup>		Initial XB Code State (Octal) <sup>ii</sup>		PRN Allocations	Orbital Slot	Effective Date
	15	Q5	15	Q5			
133	3928	1769	03473	10407	WAAS (INMARSAT 4F3)	98 W	Active until <b>Oct</b> 2029
134	2380	4721	15425	11366	KAAS (INMARSAT 5F3)	178 E	Active until Jun 2021
135	841	1252	05373	10130	WAAS (Intelsat Galaxy 15)	133 W	Active until <b>Jul</b> 2019
136	5049	5147	01433	00627	EGNOS (ASTRA 4B)	5 E	Active until Nov 2021
137	7027	2165	01567	02553	MSAS (MTSAT-2)iv	145 E	Active until Jan 2020
138	1197	7897	16360	03414	WAAS (ANIK-F1R)	107.3	Active until <b>Jul</b> 2022
139	7208	4054	07437	04313	Unallocated		
140	8000	3498	03560	12517	SDCM (Luch-5B)	95 E	Active until Dec 2021
141	152	6571	17110	04105	SDCM (Luch-4)	167 E	Active until Dec 2021
142	6762	2858	01562	00174	Unallocated		
143	3745	8126	05474	15167	BDSBAS (G3)	110.5 E	Active until Oct 2020
144	4723	7017	02275	16761	BDSBAS (G1)	140 E	Active until Oct 2020
145	5502	1901	15663	16721	Unallocated		
146	4796	181	03637	01263	Unallocated		
147	123	1114	11257	07705	NSAS (NIGCOMSAT-1R)	42.5 E	Active until Oct 2018
148	8142	5195	07757	04234	ALCOMSAT-1	24.8 W	Active until Jan 2019
149	5091	7479	00441	16023	Unallocated		
150	7875	4186	16153	06250	Unallocated		
151	330	3904	17221	00404	Unallocated		
152	5272	7128	13275	04453	Unallocated		
153	4912	1396	01560	10217	Unallocated		
154	374	4513	00274	16502	Unallocated		
155	2045	5967	04574	16073	Unallocated		

Changes shown in **bold** 

System name (Satellite name)

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Please refer to IS-GPS-705 for published values

PRN Signal Number	XB Code Advance (Chips) <sup>i</sup>		Initial XB Code State (Octal) <sup>ii</sup>		PRN Allocations	Orbital Slot	Effective Date
	15	Q5	15	Q5	PRIV Allocations	Orbital Slot	Effective Date
L							<u> </u>
156	6616	2580	16672	16622	Unallocated		
157	6321	2575	15653	11110	Unallocated		
158	7605	7961	15061	03415	Unallocated		
	Othe	r Global Navi	gation Satelli	te Systems (G	NSS) & Other Applications (PF	RNs 159 – 210)	
159	2570	2598	04424	00756	Unallocated		
160	2419	4508	16431	04114	Unallocated		
161	1234	2090	15047	02736	Unallocated		
162	1922	3685	05567	06332	Unallocated		
163	4317	7748	02720	15302	Unallocated		
164	5110	684	00730	14215	Unallocated		
165	825	913	11673	12731	Unallocated		
166	958	5558	06437	04112	Unallocated		
167	1089	2894	07374	07072	Unallocated		
168	7813	5858	12232	00060	Unallocated		
169	6058	6432	02326	14574	Unallocated		
170	7703	3813	07463	01447	Unallocated		
171	6702	3573	00333	03271	Unallocated		
172	1714	7523	11232	01034	Unallocated		
173	6371	5280	15257	14526	Unallocated		
174	2281	3376	16712	15622	Unallocated		
175	1986	7424	02366	17771	Unallocated		
176	6282	2918	03651	06012	Unallocated		
177	3201	5792	17207	04512	Unallocated		
178	3760	1747	02224	17644	Unallocated		
179	1056	7079	04562	14253	Unallocated		
180	6233	2921	15660	14601	Unallocated		
181	1150	2490	10773	07732	Unallocated		
182	2823	4119	05560	07035	Unallocated		
183	6250	3373	01653	16226	Unallocated		
184	645	977	17042	03770	Unallocated		
185	2401	681	05103	02155	Unallocated		
186	1639	4273	03574	01463	Unallocated		

PRN Signal Number	XB Code Advance (Chips) <sup>i</sup>		Initial XB Code State (Octal) <sup>ii</sup>		PRN Allocations	Orbital Slot	Effective Date
	15	Q5	15	Q5			
187	2946	5419	13272	04733	Unallocated		
188	7091	5626	00123	06705	Unallocated		
189	923	1266	02375	15343	Unallocated		
190	7045	5804	17430	11661	Unallocated		
191	6493	2414	15554	01466	Unallocated		
192	1706	6444	15226	15527	Unallocated		
193	5836	4757	06056	11607	QZS1	A1 <sup>vii</sup>	Aug 2025
194	926	427	06237	06472	QZSS (Reserved)	TBD	Aug 2025
195	6086	5452	10714	06146	QZSS (Reserved)	TBD	Aug 2025
196	950	5182	17561	00414	QZSS (Reserved)	TBD	Aug 2025
197	5905	6606	03741	05055	QZSS (Reserved)	TBD	Aug 2025
198	3240	6531	00161	10127	QZSS (Reserved)	TBD	Aug 2025
199	6675	4268	12644	03161	QZSS (Reserved)	TBD	Aug 2025
200	3197	3115	04166	04346	QZSS (Reserved)	TBD	Aug 2025
201	1555	6835	07643	04545	QZSS (Reserved)	TBD	Aug 2025
202	3589	862	01713	16127	QZSS (Reserved)	TBD	Aug 2025
203	4555	4856	12433	12664	Unallocated		
204	5671	2765	11563	17550	Unallocated		
205	6948	37	02701	10164	Unallocated		
206	4664	1943	15417	10254	Unallocated		
207	2086	7977	16751	14115	Unallocated		
208	5950	2512	06655	17703	Unallocated		
209	5521	4451	07662	01363	Unallocated		
210	1515	4071	10567	11041	Unallocated		

#### Abbreviations:

EGNOS – European Geostationary Navigation Overlay Service

GNSS - Global Navigation Satellite Systems

PRN – Pseudorandom Noise

SDCM – System of Differential Correction and Monitoring

NSAS – Nigerian Satellite Augmentation System

GAGAN – GPS-Aided Geo-Augmented Navigation

MSAS – MTSAT Space-Based Augmentation System

QZSS - Quazi-Zenith Satellite System

TBD - To Be Determined

KASS – Korean Augmentation Satellite System

PRN Signal Number	XB Code Advance (Chips) <sup>i</sup>		Initial XB Code State (Octal) <sup>ii</sup>		PRN Allocations	Orbital Slot	Effective Date
	15	Q5	15	Q5			

<sup>&</sup>lt;sup>i</sup> XB Code Advance is the number of XB clock cycles beyond an initial state of all 1s.

ii In the Octal notation for the first 13 chips of the I5 and Q5 XB codes as shown in these columns, the rightmost bit is the first bit out. Since the initial state of the XA Code is all 1s, these first 13 chips are also the complement of the initial states of the I5 or Q5-codes. In the Octal notation for the first 13 chips, the first digit (1/0) represents the first chip and the last four digits are the conventional Octal representation of the remaining 12 chips.

iii For further information see the latest edition of IS-GPS-200 at http://www.gps.gov/technical/icwg/.

iv For current PRN assignments and orbital information for GPS satellites please see the Navigation Center website at http://www.navcen.uscg.gov/?Do=constellationStatus.

<sup>&</sup>lt;sup>v</sup> MTSAT-2 will broadcast two PRN signals-each of which is received from an independent uplink station-in order to maintain continuity in case of uplink signal failure.

vi This PRN is reserved for the requesting system pending final approval as of publication of this document.

vii QZSS A1 => RAAN = 0, Argument of Perigee = 270, Mean Anomaly = 324, at Epoch 31Dec 07 00:00:00.