

**Motorola ONCORE™
GPS Receiver Configuration Matrix**

Old Model Number	New Model Number ³	DGPS Input	1 PPS	Raw Data	Bat B/U	Coax Connector	Output Message	LNA	Com Ports	Hi RF
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**GT ONCORE™
(AVL / Tracking)**

** R1121N1114	N/A	Binary	1 MS			RA / OSX	Bin / ASCII		1	
** R1221N1114	N/A	Binary	1 MS		X	RA / OSX	Bin / ASCII		1	
** R1221N114x	N/A	Binary	1 MS			RA / OSX	Bin / ASCII		1	

**GT+
(2.0 firmware)**

N/A	R3111G1111	BIN / RTCM	500 ns			RA / OSX	Bin / ASCII / NMEA		2	
N/A	R3211G1111	BIN / RTCM	500 ns		X	RA / OSX	Bin / ASCII / NMEA		2	
N/A	R3111G1141	BIN / RTCM	500 ns			SMB	Bin / ASCII / NMEA		2	
N/A	R4112G1111	BIN / RTCM	500 ns			RA / OSX	Bin / ASCII / NMEA	X	2	
N/A	R4212G1111	BIN / RTCM	500 ns		X	RA / OSX	Bin / ASCII / NMEA	X	2	
N/A	R4112G1171	BIN/RTCM	500 ns			ST / OSX	Bin / ASCII / NMEA	X	2	

**UT ONCORE™
(Precision Timing)**

** R1121A111x	N/A		< 45 ns			RA / OSX	Binary		1	
** R1121A115x	N/A		< 45 ns			ST / OSX	Binary		1	
** R1221A111x	N/A		< 45 ns		X	RA / OSX	Binary		1	

**UT+
(2.0 firmware)**

N/A	R5122U1111		< 45 ns			RA / OSX	Binary		1	X
N/A	R5222U1111		< 45 ns		X	RA / OSX	Binary		1	X
N/A	R5122U1151		< 45 ns			ST / OSX	Binary		1	X

**VP ONCORE™
(All Applications)**

* B3121B111x	B8121B1116	BIN / RTCM	--			RA / OSX	Bin / NMEA / LORAN		1	New
* B3221B111x	B8221B1116	BIN / RTCM	--		X	RA / OSX	Bin / NMEA / LORAN		1	New
* B3121P111x	B8121Z1116	BIN / RTCM	< 45 ns	New		RA / OSX	Bin / NMEA / LORAN		1	New
* B4121P115x	B8121Z1156	BIN / RTCM	< 45 ns	New		ST / OSX	Bin / NMEA / LORAN		1	New
* B3121Z111x	B8121Z1116	BIN / RTCM	< 45 ns	X		RA / OSX	Bin / NMEA / LORAN		1	New
* B3221Z111x	B8221Z1116	BIN / RTCM	< 45 ns	X	X	RA / OSX	Bin / NMEA / LORAN		1	New

Notes:

¹ The Basic ONCORE,™ XT ONCORE™ and all 6 channel GPS receivers were phased out in December of 1996. Synergy Systems, LLC now provides a plug-compatible replacement for the old XT ONCORE™. The new XTS/II may be powered by any of the Motorola ONCORE™ receivers to suit specific applications (See Tech-Note 703 for details).


² RTC (clock) is included on all models.

³ "HI RF" is the enhanced capability to work within high EMI environments

⁴ The word "New" used in the matrix refers to first time this feature has been offered in the model referenced.

⁵ Timing accuracy of <45 ns in position hold mode.

For configuration assistance, order placement and technical support call:

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