


**Motorola Oncore™ GPS Receiver Configuration Matrix**


Model Number	DGPS Input	1 PPS	Bat B/U	Coax Connector	Power/Data Connector	Output Message	Com Ports	Hi RF	Chan	Other
<b>M12 Oncore™ (Tracking / Position)</b> 										
P123T11N1X**	BIN / RTCM	500 ns	X	ST MMCX	Right Angle	Bin / ASCII / NMEA	2		12	SRAM
P123T12N1X**	BIN / RTCM	500 ns	X	ST MMCX	Straight	Bin / ASCII / NMEA	2		12	SRAM
P143T11N1X	BIN / RTCM	500 ns	X	ST MMCX	Right Angle	Bin / ASCII / NMEA	2		12	
P143T12N1X	BIN / RTCM	500 ns	X	ST MMCX	Straight	Bin / ASCII / NMEA	2		12	
P133T11N1X	BIN / RTCM	500 ns		ST MMCX	Right Angle	Bin / ASCII / NMEA	2		12	
P133T12N1X	BIN / RTCM	500 ns		ST MMCX	Straight	Bin / ASCII / NMEA	2		12	

**SL Oncore™ (Tracking / Position)** 

R6111G114x	BIN / RTCM	500 ns		RA / SMB	Right Angle	Bin / ASCII / NMEA	2		8	
R6211G118x	BIN / RTCM	500 ns	X	RA / OSX	Straight	Bin / ASCII / NMEA	2		8	

**GT+ Oncore™ (Tracking / Position)** 

R3111G111x	BIN / RTCM	500 ns		RA / OSX	Straight	Bin / ASCII / NMEA	2		8	
R3211G111x	BIN / RTCM	500 ns	X	RA / OSX	Straight	Bin / ASCII / NMEA	2		8	
R3111G114x	BIN / RTCM	500 ns		RA / SMB	Straight	Bin / ASCII / NMEA	2		8	

**UT+ Oncore™ (Precision Timing)** 

R5122U111x		< 45 ns		RA / OSX	Straight	Binary	1	X	8	
R5222U111x		< 45 ns	X	RA / OSX	Straight	Binary	1	X	8	
R5122U115x		< 45 ns		ST / OSX	Straight	Binary	1	X	8	

**Notes:**

- <sup>1</sup> "HI RF" is the enhanced capability to work within high EMI environments
- <sup>2</sup> The last digit in the part number, x, is reserved for the firmware version number.
- <sup>3</sup> Timing accuracy of <45 ns in position hold mode.
- <sup>4</sup> Synergy Systems, LLC now provides a plug-compatible replacement for the original XT ONCORE™. See Tech-Note 703 for details.
- <sup>5</sup> All versions of the VP ONCORE™ and Remote GPS phased out in August 1999.
- <sup>6</sup> ST refers to a straight connector.
- <sup>7</sup> RA refers to a right angle connector.

\*\* These models contain a separate static RAM chip (SRAM) intended for future firmware features when released by Motorola. This SRAM chip is not to be confused with the microprocessor based SRAM holding receiver set-up information, Almanac information, Ephemeris data, etc.

**For configuration assistance, order placement and technical support call:**

<p><b>SYNERGY SYSTEMS, LLC</b> <i>Time proven products and support</i></p>	P.O. Box 262250 • San Diego, CA 92196 Phone: (858) 566-0666 • Fax: (858) 566-0768 Internet E-Mail: Info@synergy-gps.com
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