Product Selector Guide

GPS Products

	W2SG0001	W2SG0004	W2SG0006	W2SG0007	W2SG0008
Available now?	*Yes*	*Yes*	*Yes*	*Samples: Now; Production: June 30th*	*January '08*
Description	GSC3f/LP module with Hirose connector	GSC3LTF module with 50 ohm antenna launch, low power SiRF chipset	GSC3f/LP module with 50 ohm antenna launch	GSC3f/LP module, pin compatible with Semco product, has 50 ohm antenna launch	GSD3t, uses software control from a microprocessor, has 50 ohm antenna launch
Size	15 mm x15 mm x 2.5 mm (with shield)	11.2 mm x 12 mm x 2.3 mm (with shield)	15 mm x 15 mm x 2.5 mm (with shield)	13.1 mm x 15.9 mm x 2.5 mm (with shield)	TBD
Package	14 pin SMD	20 pin SMD	28 pin SMD	36 pin SMD	TBD
Output Data	NMEA, SiRFBinary™ and AI3/F - selectable	NMEA, SiRFBinary™ and AI3/F - selectable	NMEA, SiRFBinary™ and AI3/F - selectable	NMEA, SiRFBinary™ and AI3/F - selectable	NMEA, SiRFBinary™ and AI3/F - selectable
Default Settings	NMEA, 9.6Kbps	NMEA, 9.6 Kbps	NMEA, 9.6 Kbps on one port and SiRFBinary, 9.6 Kbps on scond port	NMEA, 9.6 Kbps on one port and SiRFBinary, 9.6 Kbps on scond port	TBD
Number of GPIOs	1	None	5	1	TBD
LNAs	Internal, plus supply for external LNA	Internal, plus supply for external LNA	Internal, plus supply for external LNA	Internal, plus supply for external LNA	Internal, plus supply for external LNA
Antenna	Active or Passive	Active or Passive	Active or Passive	Active	Active or Passive
Peak Current	70 mA	50 mA	70 mA	70 mA	TBD
Continuous Current	45 mA	35 mA	45 mA	45 mA	TBD
Other key features	UART interface is configurable for either SiRFBinary™ or NMEA	Has SAW filter before and after the LNA to prevent amplifier cross coupling and better coexistence with other wireless standards	Has more GPIOs, and two UART interfaces	Has two UART interfaces	TBD
Customization	Custom firmware can be provided upon request (static navigation, baud rate, output data, higher accuracy etc.)				
Certification	US, Canada, Europe, Korea, Taiwan are complete (reports are available); Japan, China are ongoing	US, Canada, Europe, Korea, Taiwan are complete (reports are available); Japan, China are ongoing	US, Canada, Europe, Korea, Taiwan are complete (reports due on 06/22); Japan, China are ongoing	US, Canada, Europe, Korea, Taiwan are complete (reports due on 06/22); Japan, China are ongoing	TBD

WiFi and Combo Products

	W2CBW003	W2SW0001
Available now?	*Yes*	*Yes*
Description	Marvell 8686 802.11 b/g WiFi, plus CSR BC04 based Bluetooth	Marvell 8686 802.11 b/g WiFi single function device
Size	12 mm x 12 mm x 1.4 mm	9.5 mm x 9.5 mm x 1.4 mm
Package	100 pin LGA	81 pin LGA
	(BGA option) SiP (system in a package)	(BGA option) SiP (system in a package)
OS Supported	Linux, WinCE (WinMobile), Vista, WinXP	Linux, WinCE (WinMobile), Vista, WinXP
Processors supported	Intel/AMD/Via uP;PXA270, PXA300, PXA320; Ongoing development for Freescale iMX21/iMX31, Samsung 2443, TI OMAP/Davinci	Intel/AMD/Via uP;PXA270, PXA300, PXA320; Ongoing development for Freescale iMX21/iMX31, Samsung 2443, TI OMAP/Davinci
Number of GPIOs	7 for WiFi, 1 for BT	7
Interfaces	SDIO(1 bit or 4 bit) or GSPI for WiFi, USB or UART for Bluetooth, PCM for audio	SDIO(1 bit or 4 bit) or GSPI for WiFi, USB or UART for Bluetooth, PCM for audio
Default Settings	SDIO for WiFi and USB for Bluetooth	SDIO for WiFi
Peak Current	240 mA for 802.11g operation + 55 mA for Bluetooth	240 mA for 802.11g operation
Supports PSM?	Yes	Yes
Included functions	Oscillator, bulk caps, LDOs, EEPROMs, switch, PA, filters, balun	Oscillator bulk caps, LDOs, EEPROM, switch, PA, filters, balun
Other key features	Dual 50 ohm antenna launch, reference design showing single antenna solution, single rail operation, no external bulk caps; Detailed testing and tuning for multiple coexistence scenarios	Single rail operation, no external bulk caps
Customization	Custom firmware can be provided upon request (interface settings, PCM/UART settings etc.)	
Certification	US, Canada, Europe, Korea, Taiwan are complete (reports are available); Japan, China are ongoing	Ongoing

Minicard

	W2CBWG01
Available now?	*Yes*
Description	Marvell 8686 802.11 b/g, plus CSR BC04 Bluetooth, plus SiRF GSC3LTf; Integrates W2CBW003 and W2SG0004 on a minicard
Size	26.8mm x 30mm x 3.3mm
Package	Standard half mini PCI card form factor
OS Support	Linux, WinCE (WinMobile), Vista, WinXP; Others can be supported on request
Processors supported	Intel/AMD/Via uP; PXA270, PXA300, PXA320; Ongoing development for Freescale iMX21/iMX31, Samsung 2443, TI OMAP/Davinci; Others can be supported on request
Number of GPIOs	7 for WiFi, 1 for BT
Interfaces	SDIO(1 bit or 4 bit) WiFi, USB Bluetooth, UART for GPS
Default	NMEA, 9.6Kbps baud rate for GPS
Peak Current	240 mA for 802.11g operation + 55 mA for Bluetooth + 50 mA for GPS
Supports PSM?	Yes
Included functions	Oscillator, bulk caps, LDOs, EEPROMs, switch, PA, filters, balun for BT/WiFi; crystal, LDO, LNA, filters, passives for GPS
Other key features	Triple combo product, single rail operation; Detailed testing and tuning for multiple coexistence scenarios
Customization	Custom firmware settings for BT, WiFi and GPS can be provided upon request
Certification	Ongoing (sub-components W2CBW003 and W2SG0004 are already certified)