




# \*XF Plug-In Modems Comparison

Specs / Parameter		CDMA910XF	HSPA910XF	EVDO910XF
				
Power Supply	Input Voltage Range	3.5 - 4.3 Vdc	3.5 - 4.3 Vdc	3.5 - 4.3 Vdc
	Registered Idle Current Draw**	29mA	13mA	13mA
	Power Savings Current Draw**	2mA	2mA	2mA
Hardware	Screw Mounting Hole	Yes	Yes	Yes
Cellular	Cellular Technology - Primary Fallback	CDMA 1xRTT	UMTS/HSPA GSM/GPRS/EDGE	EV-DO CDMA/1xRTT
	Max Data Rate down/up (Mbps)	0.135	21.0 / 5.76	3.1 / 1.8
	2G Bands	800 (BC0), 1900 (BC1)	GSM850, GSM900, DCS1800, PCS1900	800 (BC0), 1900 (BC1)
	3G Bands		2100 (B1), 1900 (B2), AWS (B4), 850 (B5/B19) 800 (B8)	800 (BC0), 1900 (BC1)
	Rx Diversity & MIMO	No	Rx	Rx
	Antenna Connector	U.FL	U.FL	U.FL
	SIM Card	Micro (3FF size)	Micro (3FF size)	Micro (3FF size)
	Certification	Sprint, Verizon	AT&T, T-Mobile, Rogers	Sprint, Verizon
GPS	GPS Available?	No	GPS	GPS / GLONASS
	GPS Antenna Connection	U.FL	U.FL	U.FL
UART	UART Interfaces	AT Command Trace Tx/Rx	AT Command Trace Tx/Rx (Supports CMUX)	AT Command AUX Tx/Rx
	UART Voltage	1.65 - 5.0 Vdc	1.65 - 5.0 Vdc	1.65 - 5.0 Vdc
	UART Baud Rate	115200 Default	115200 Default	115200 Default
USB	USB Interfaces	Modem: USB1 Virtual Com Ports: Diagnostic Port - USB0	Modem: USB0 Virtual Com Ports: USB1, USB2 USB3, USB4 USB5, USB6	Modem: USB3 Virtual Com Ports: Diagnostic Port - USB1 NMEA Port - USB2 Auxillary Port - USB4
Software	TCP/IP	UDP/TCP/FTP/SMTP stack	UDP/TCP/FTP/SMTP stack	UDP/TCP/FTP/SMTP stack
	Application Programming	Python	Python, C	No
I/O	GPIO	2 (GPIO_2-3)	2 (GPIO_2-3)	2 (GPIO_2-3)
	LED Indicator Outputs	Cellular Status	Cellular Status	Cellular Status
	DAC	0	0	0
	ADC	1	1	1

\* XF Footprint is an Industry Standard 20 Pin Connector Footprint | \*\* Average Current: may be higher in fallback modes.

# \*XF Plug-In Modems Comparison

Specs / Parameter		LTE910XF v1.00	LTE910XF v3.00	LTE910XF v6.00	LTE910XF v7.00
					
Power Supply	Input Voltage Range	3.5 - 4.3 Vdc	3.5 - 4.3 Vdc	3.5 - 4.3 Vdc	3.5 - 4.3 Vdc
	Registered Idle Current Draw*	20mA	20mA	15mA	15mA
	Power Savings Current Draw*	2mA	2mA	2mA	2mA
Hardware	Screw Mounting Hole	Yes	Yes	Yes	Yes
	Cellular Technology - Primary Fallback	LTE (CAT 3) GSM/GPRS/EDGE/UMTS/HSPA	LTE (CAT 3)	LTE (CAT 1)	LTE (CAT 1) EDGE/UMTS/HSPA
Cellular	Max Data Rate down/up (Mbps)	100 / 50	100 / 50	10 / 5	10 / 5
	2G Bands	GSM850, PCS1900			
	3G Bands	1900 (B2), 850 (B5)			1900 (B2), 850 (B5)
	4G Bands	1900 (B2), 1700 (B4), 850 (B5), 700 (B17)	1700 (B4), 700 (B13)	1900 (B2), 1700 (B4), 700 (B13)	1900 (B2), 1700 (B4), 850 (B5), 700 (B12/B13)
	Rx Diversity & MIMO	Rx & MIMO DL 2x2	MIMO DL 2x2	MIMO DL 2x2	Rx & MIMO DL 2x2
	Antenna Connector	U.FL	U.FL	U.FL	U.FL
	SIM Card	Micro (3FF size)	Micro (3FF size)	Micro (3FF size)	Micro (3FF size)
	Certification	AT&T, T-Mobile, Rogers	Verizon	2017	2017
GPS	GPS Available?	GPS / GLONASS	GPS / GLONASS	No	No
	GPS Antenna Connection	U.FL	U.FL	U.FL	U.FL
UART	UART Interfaces	AT Command AUX Tx/Rx	AT Command AUX Tx/Rx	AT Command AUX Tx/Rx	AT Command AUX Tx/Rx
	UART Voltage	1.65 - 5.0 Vdc	1.65 - 5.0 Vdc	1.65 - 5.0 Vdc	1.65 - 5.0 Vdc
	UART Baud Rate	115200 Default	115200 Default	115200 Default	115200 Default
USB	USB Interfaces	Modems: USB2, USB3 Virtual COM Ports: Diagnostic Port - USB1 NEMA Port - USB4 Auxillary Port - USB5	Modems: USB2, USB3 Virtual Com Ports: Diagnostic Port - USB1 NEMA Port - USB4 Auxillary Port - USB5	Modem: USB0 Virtual Com Ports: USB1, USB2 USB3, USB4 USB5	Modem: USB0 Virtual Com Ports: USB1, USB USB3, USB4 USB5
Software	TCP/IP	UDP/TCP/FTP/SMTP stack	UDP/TCP/FTP/SMTP stack	UDP/TCP/FTP/SMTP stack	UDP/TCP/FTP/SMTP stack
	Application Programming	No	No	C	C
I/O	GPIO	2 (GPIO_2-3)	2 (GPIO_2-3)	2 (GPIO_2-3)	2 (GPIO_2-3)
	LED Indicator Outputs	Cellular Status	Cellular Status	Cellular Status	Cellular Status
	DAC	0	0	0	0
	ADC	1	1	1	1

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