



# \*XF Plug-In Modems Comparison

| Specs / Parameter   | HSPA910XF                              | LTE910XF v1.00  | LTE910XF v3.00   | LTE910XF CAT 4 v8.00  |
|---|--|---|--|---|
|  |  |   |  |   |
| Power Supply  | Input Voltage Range                    | 3.5 – 4.3 Vdc   | 3.5 – 4.3 Vdc  | 3.5 – 4.3 Vdc   |
|   | Registered Idle Current Draw**         | 13mA  | 20mA   | 15mA  |
|   | Power Savings Current Draw**           | 2mA   | 2mA  | 2mA   |
| Hardware  | Screw Mounting Hole                    | Yes   | Yes  | Yes   |
| Cellular  | Cellular Technology - Primary Fallback | UMTS/HSPA<br>GSM/GPRS/EDGE  | LTE (CAT 3)<br>GSM/GPRS/EDGE/UMTS/HSPA   | LTE (CAT 3)   |
|   | Max Data Rate down/up (Mbps)           | 21.0 / 5.76   | 100 / 50   | 100 / 50  |
|   | 2G Bands                               | GSM850, GSM900, DCS1800, PCS1900  | GSM850, PCS1900  |   |
|   | 3G Bands                               | 2100 (B1), 1900 (B2),<br>AWS (B4), 850 (B5/B19) 800 (B8)                    | 1900 (B2), 850 (B5)  |   |
|   | 4G Bands                               |   | 1900 (B2), 1700 (B4)<br>850 (B5), 700 (B17)  | 1700 (B4), 700 (B13)  |
|   | Rx Diversity & MIMO                    | Rx  | Rx & MIMO DL 2x2   | MIMO DL 2x2   |
|   | Antenna Connector                      | U.FL  | U.FL   | U.FL  |
|   | SIM Card                               | Micro (3FF size)  | Micro (3FF size)   | Micro (3FF size)  |
|   | Certification                          | AT&T, T-Mobile, Rogers  | AT&T, T-Mobile, Rogers   | Verizon   |
| GPS   | GPS Available                          | GPS   | GPS / GLONASS  | N/A   |
|   | GPS Antenna Connection                 | U.FL  | U.FL   | U.FL  |
| UART  | UART Interface                         | AT Command  | AT Command   | AT Command  |
|   | 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: USB0<br>Virtual Com Ports:<br>USB1, USB2<br>USB3, USB4<br>USB5, USB6 | Modem: USB2, USB3<br>Virtual Com Ports:<br>Diagnostic Port - USB1<br>NEMA Port - USB4<br>Auxillary Port - USB5 | Modem: USB0<br>Virtual Com Ports:<br>USB1, USB2<br>USB3, USB4<br>USB5 |
|   | Software                               | TCP/IP  | UDP/TCP/FTP/SMTP stack   | UDP/TCP/FTP/SMTP stack  |
| I/O   | Application Programming                | Python, C   | No   | No  |
|   | GPIO                                   | 2 (GPIO_2-3)  | 2 (GPIO_2-3)   | 2 (GPIO_2-3)  |
|   | LED Indicator Outputs                  | Cellular Staus  | Cellular Staus   | Cellular Staus  |
|   | 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.

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| Specs / Parameter   |  | LTE910XF v6.00   | LTE910XF v7.00  | LTE910XF CAT-M1 v10.00  | LTE910XF CAT-M1 v11.00                       |
|---|--|--|---|---|--|
|  |  |  |   |  |  |
| 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**         | 15mA   | 15mA  | 12mA  | 12mA   |
|   | Power Savings Current Draw**           | 2mA  | 2mA   | 2mA   | 2mA  |
| Hardware  | Screw Mounting Hole                    | Yes  | Yes   | Yes   | Yes  |
| Cellular  | Cellular Technology - Primary Fallback | LTE (CAT 1)  | LTE (CAT 1)<br>EDGE/UMTS/HSPA   | LTE (CAT-M1)  | LTE (CAT-M1)                                 |
|   | Max Data Rate down/up (Mbps)           | 10 / 5   | 10 / 5  | 0.3 / 0.375   | 0.3 / 0.375                                  |
|   | 2G Bands                               |  |   |   |  |
|   | 3G Bands                               |  | 1900 (B2), 850 (B5)   |   |  |
|   | 4G Bands                               | 1900 (B2), 1700 (B4)<br>700 (B13)  | 1900 (B2), 1700 (B4)<br>850 (B5), 700 (B12/B13)                       | 1900 (B2), 1700 (B4)<br>700 (B12)   | 1700 (B4), 700 (B13)                         |
|   | Rx Diversity & MIMO                    | MIMO DL 2x2  | Rx & MIMO DL 2x2  | N/A   | N/A  |
|   | 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                          | Verizon  | AT&T, T-Mobile, Rogers  | AT&T, T-Mobile, Rogers  | Verizon                                      |
| GPS   | GPS Available                          | No   | No  | Yes   | Yes  |
|   | GPS Antenna Connection                 | U.FL   | U.FL  | U.FL  | U.FL   |
| UART  | UART Interface                         | AT Command   | AT Command  | AT Command  | AT Command                                   |
|   | 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                         | Modem: USB0<br>Virtual Com Ports:<br>USB1, USB2<br>USB3, USB4<br>USB5              | Modem: USB0<br>Virtual Com Ports:<br>USB1, USB2<br>USB3, USB4<br>USB5 | Modems: USB1, USB2<br>Virtual Com Port: USB0  | Modems: USB1, USB2<br>Virtual Com Port: USB0 |
| 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                | C  | C   | No  | No   |
| I/O   | GPIO                                   | 2 (GPIO_2-3)   | 2 (GPIO_2-3)  | 2 (GPIO_2-3)  | 2 (GPIO_2-3)                                 |
|   | LED Indicator Outputs                  | Cellular Staus   | Cellular Staus  | Cellular Staus  | Cellular Staus                               |
|   | DAC                                    | 0  | 0   | 0   | 0  |
|   | ADC                                    | 1  | 1   | 1   | 1  |

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