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XT-4000-G
IntelliBox
J1939/J1708 GPRS Modem with
Integrated GPS



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IntelliBox is a technology platform that allows Xirgo to rapidly develop customized telematics devices to communicate vital information from vehicles and heavy equipment using J1708/J1939 protocol and the ubiquitous GSM/GPRS networks.

Customized options can include:

- integrated GPS receiver
- Embedded cellular, PCS and GPS antennas
- Optional external antennas for enhanced performance in difficult RF environments
- Ultra low power draw of less than 500 uA when vehicle is not being operated
- RS-232 serial port to transmit ancillary data
- Highly configurable firmware which supports:
 - TCP and UDP reporting
 - FTP firmware over the air update
 - SMS connectivity

IntelliBox is another example of Xirgo Technologies' dedication to a flexible design-to-manufacture model that reduces time-to-market for customized products for various M2M and telematics verticals.



XT-4000-G Platform Summary

- GPRS class B multi-slot class 10
- Supports 850/900/1850/1900 MHz
- LED status indicators for GPS, GSM registration and CANbus status
- Over-the-air firmware upgrade
- Supports TCP, UDP, FTP
- Integrated GPS receiver and antenna for tracking applications
- Supports SMS connectivity
- Supports J1708 and J1939 protocols
- Optional embedded GPS/GSM antennas for ease of installation

Specifications

Frequency Band	850/1900 MHz
Transmit Power	33 dBm @ 850/900 MHz 30 dBm @ 1800/1900 MHz
Status Indicators	Network registration/GPRS GPS status CANBus protocol status

GPS specification

• Receiver	50 channels
• Receiver tracking Sensitivity	-159 dBm
• Accuracy	+/- 2.5m CEP
• Cold Start	<33 sec
• Hot Start	< 1 sec

Network Functionality

- Auto-Register to GPRS network
- GPRS Class B, Multi-Slot 10
- Supports TCP, UDP and FTP
- OTA Firmware Upgrade Using FTP
- SMS connectivity

Data Bus Protocol

- SAE J1939
- SAE J1708

Power Requirement

• D.C Power	6-24V
• GSM 850/900	35mA average @12V
• GSM 1800/1900	30mA average @12V

Physical Connection

• Data Connector	12 pin automotive micro-fit
• GPS Antenna	External SMA
• Cellular Antenna	External SMA
• Serial Interface	DB9 connector or Mini USB

Mechanical

Case Material	ABS plastic– Other optional weather-proof Enclosure available
Dimensions	3.1" X 3.5" X 1"
Weight	<2 oz.
Operating Temperature	-30°C to +75°C



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