

# IVU-3100

## Integrated Vehicle Unit

### Maintain reliable communications quickly and safely with operators in your mobile fleet using Xerox's Smart Mobile IVU.

The IVU-3100 is a durable high performance unit for the management of the communications and control functions of the on-bus equipment. Designed specifically for the public transit industry. Proven and operating system installed in over 3,000 transit vehicles.

### Functional:

- Interfaces with mobile radio and cellular for voice and data communications.
- Continuously determines vehicle location from its external GPS, and fixed-end DGPS corrections if available.
- Continuously monitors schedule and route adherence for fixed-route vehicles; notifies users of off-route and early/late conditions via an exception message and schedule deviation.
- Provides central control for vehicle peripherals such as annunciators, destination signs, APCs, fare boxes, etc.
- Monitors engine status, vehicle speed, and silent alarm via J1708 or J1939.

Using an industry standard embedded PC architecture, the IVU-3100 is an "Open Architecture" product supporting QNX real-time operating system software. It is fully compliant with the ITS/FTA SmartBus as well as SAE J1708, J1939, and SAE 1587 Vehicle Area Network (VAN) standards, and is capable of interfacing with various radio networks including VHF, UHF, and 800/900 MHz trunked simulcast or multicast radio systems, as well as CDMD or GSM/GPRS cellular systems.



## Features:

- Ten RS-232/RS-485 serial ports
- 266 MHz Pentium Class x86 processor, upgradable
- Odometer interface
- Two J1708 ports and two CAN/J1939 ports
- Supports numerous wireless communications systems
- Supports 2 PC cards, 3.3 or 5V
- Memory
  - 32 - 256 Mbytes of RAM
  - 2 SLOTS OF 96 - 512 Mbytes of Compact Flash (Mass Storage)
- One Ethernet port
- Isolated Discrete I/O signals
  - 12 inputs
  - 8 outputs
- Optional Gyro

## Specifications:

Power Requirements Continuous:  
Voltage: VDC Max: 40 Min: 9  
Wattage: 28W, including GPS

## Environmental:

Operating Temperature: -30 to 70° C

Storage Temperature: -40 to 85° C

Humidity: 98% at 38° C

Shock: 30g duration for 6 milliseconds

Vibration: 2g peak RMS, 5 to 150 Hz

SA EJ1455 compliant

MILSTD810F

Durable: Designed to meet the necessary specifications required for heavy-duty vehicle applications.

## Contact us.

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