

What can an In-vehicle PC add to mobile data?

The In-vehicle PC has the flexibility of varied application support by running Windows® XP/2000 but is specifically designed for the harsh vehicle environment. Unlike laptops and tablet PCs, the In-vehicle PC works symbiotically with the vehicle, managing its voltage, temperature and shock and vibration. Securely fixed in the vehicle, these PCs guard against theft, loss and accidental damage, and can be connected reliably to other permanently fixed equipment such as cameras, modems, lightbars, fingerprint readers, printers and access-controlling security devices.

Microbus In-vehicle PCs are used in a variety of applications and currently include:

- Power management of radios to avoid flat batteries
- Multi-camera Automatic Number Plate Recognition
- Traffic Law Enforcement display
- Police National Computer access
- Internet and Force Intranet access
- Computer Aided Despatch display
- GPS Navigation, Mapping and GIS
- Helicopter Downlink display
- Local databases including TVIS and QuickAddress
- Thermal imaging/surveillance camera image display
- Report compilation
- Lightbar control and monitoring
- In-vehicle Fingerprint Recognition Trials

The selection of screen sizes available supports Health and Safety approved installations into most vehicles. The ability to view the screen clearly in the high ambient light of a vehicle is as crucial as a full dimming range for night use. Many applications for fleet use of In-vehicle PCs are designed for touch-screen control, with keyboards only being used for bulk data input.

In-vehicle PCs should also have a programme control system and, for this, Microbus offers the OnScreen Task Switch system, providing seamless switching between applications. Bearer independence provides connectivity via Airwave, GPRS/GSM, Mobitex, PMR, and Wireless LAN. Multiple airtime connection options can be supported by each unit.



Microbus In-vehicle PCs offer a variety of performance options depending upon the user's requirements. Post-fit vehicle electronics need to meet comprehensive legislative standards; for Europe this is the e-mark and for United Nations, the E-mark. This is crucial to limit the chance of conducted and/or radiated emissions affecting the vehicle safety systems.

Data encryption for Mobile Emergency Services added to the Microbus M-PC2

The security of data is always a prime consideration in the use of mobile PC technology. Unlike laptop computers, tablet PCs and PDAs an In-vehicle PC is fixed to the vehicle, adding a significant physical security to information. Application design practices of using remote data or thin client applications can also reduce issues related to data security. Additionally, controlled access to systems and other software solutions may be implemented.

Adding to this range of options, Microbus have made use of Stonewood's CESG approved Flagstone Hard Drives offering Confidential level security for data left in the system. This solution is now in regular use with the Police Service of Northern Ireland (PSNI). Fitted inside Microbus In-vehicle PCs, Stonewood's fully encrypted FlagStone Drives have dramatically reduced PSNI concerns that surrounded the use of insecure hard disk drives within a mobile environment.

The combination of Microbus technology and Stonewood security has enabled PSNI to take a great step forward in the fight against crime and thereby denying criminals the use of the road. Due to the unique manner in which Microbus counters the characteristics of shock and vibration, it was necessary to develop a solution specifically to work in Microbus In-vehicle PCs. The combined knowledge and experience of Microbus and Stonewood has resulted in a unique and revolutionary product that further enhances the dominant position of Microbus in the UK's Emergency Services In-vehicle PC market.

See us at NAPFM

Microbus will be exhibiting at this year's National Association of Police Fleet Managers event in Wroughton on August 15th & 16th. Visitors to stand No.8 will be able to see how Microbus M-PC2 In-vehicle computers are providing a variety of forces with essential data access at the frontline of policing.

Microbus exhibit at many events both in the UK and Europe. Come and see us to find out more about our In-vehicle PC solutions:

NAPFM - Swindon, August 15-16 • **Specialist Security Equipment Products** - Vienna, Sept 26 • **Emergency Services Show** - London, October 19-20



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 **Microbus**
Driving vehicle PC technology forward