

## M-PC3

### HIGH PERFORMANCE VEHICLE COMPUTER




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ANPR  
 Digital Video Recording  
 Database Access  
 Incident Reporting  
 Computer Aided Dispatch  
 GIS/Mapping

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#### Class leading performance

Intel® Core 2 Duo 2.53 GHz CPU  
 High performance chipset and graphics  
 Up to 4Gbytes of DDR3 memory

#### High Performance Wireless networks

1 or 2 3G, HSDPA, UMTS, GPRS  
 WiFi - WLAN  
 AM/FM Radio with RDS support

#### Greater connectivity

4 x Serial  
 2 x USB 2.0  
 2 x 1Gbit Ethernet

#### The ideal ANPR platform

Camera interfaces:  
 1 x MPEG  
 3 x video input channels  
 2 x 1Gbit Ethernet  
 On Screen Display: Time, GPS position and own vehicle speed  
 Integrated Digital Video Recorder

#### Navigation and mapping

Integral GPS with remote antenna

#### Easy upgrade

Unit footprint is compatible with M-PC2

The M-PC3 is a next-generation in-vehicle computer that can support a wide range of applications and technologies.

The system features the Intel® Core 2 Duo processor, offering class leading performance and greater energy efficiency.

High brightness TFT touchscreens are available in a range of sizes to fit all vehicle types. The M-PC3 computer is used for a variety of applications including ANPR, digital video recording, database access, computer aided dispatch, incident reporting and GIS/Mapping.

The computer's multiple camera inputs also feature one dedicated MPEG channel to support Microbus's Integrated Digital Video Recording solution.

Using its wireless connectivity the M-PC3 places real-time information in the hands of the field-based worker, where and when they need it. The system can be used over any network including TETRA Airwave, 3G and GPRS.

Whilst the M-PC3 offers full PC functionality it has a wealth of features crucial to reliable operation in the vehicle: managing its temperature, shock, vibration and voltages.



## MODELS

M-PC3-1400	Intel Core Duo 2.53GHz, 2GB RAM, 80GB HDD, GPS, WLAN, Video, iDVR & OSD support*, AES5 Issue10
M-PC3-1600	Intel Core Duo 2.53GHz, 2GB RAM, 80GB HDD, 3G/GPRS, GPS, WLAN, Video, iDVR & OSD support*, AES5 Issue10
	iDVR - integrated Digital Video Recorder
	OSD - On Screen Display

## SPECIFICATION



Operating System	Windows® XP
Touchscreen	High brightness TFT colour touchscreens: 8.4, 10.4, 12.1 inches • Other sizes available On/off switch (configurable) controls power and monitors vehicle battery with controlled Windows® shutdown
Processor	Intel® Core 2 Duo 2.53GHz
Memory	DDR3 1GB, 2GB or 4GB
Video controller	Generation 3.5 Intel® Integrated Graphics Engine, and the Intel® Graphics Media Accelerator 950
Primary screen output	A single connector carrying touchscreen interface, power and panel data
Secondary screen output	DVI output for duplicate or independent video display
USB	2 x USB 2.0 ports. Expansion using external 4 USB hub
Radio system	Integrated AM/FM radio with RDS support for Traffic Information
Expansion - Internal	3 x Mini PCI Express sites available if not used for 3G and WiFi
Expansion - External	PCI Express expansion box
WiFi	Interoperable with 802.11b and 802.11g compliant devices
Ethernet	2 x 10/100/1Gbits
3G/GPRS	1 or 2 x internal HSDPA/3G/UMTS/EDGE/ GPRS/GSM modules with remote antenna
GPS	GPS module with connection to remote antenna
Camera input	Up to 4 independent Composite inputs (PAL or NTSC)
MPEG	1 x dedicated input channel supporting the iDVR solution
OSD	On Screen Display of Time, GPS position and own vehicle speed
Digital I/O	Optically isolated 8 inputs and 8 outputs
Analogue I/O	4 x inputs: 3 channels 0-16V, 1 channel 0-28V
Serial	4 x RS232 channels
Hard disk	80GB, Shock and vibration mounted with temperature management
Sound	Intel® HDA with Microphone, Line In, Speaker and Line Out
Power	Supporting 12V and 24V vehicles
Consumption	M-PC3 and 8.4" TFT screen with 13.7V input voltage: Shutdown: 53mA Standby: 107mA Idle: 2.8A
Dimensions	259 x 191 x 112mm (approximately)
Weight	2.45kg (system unit only)
Temperature range	-20°C to 55°C operation -20°C to 70°C storage 0 to 95% RH non-condensing
Shock & vibration	2-200Hz bandwidth, 1.04grms 20g 11ms half sine 45g 3ms half sine
Certification	Designed to meet : AES5 Issue 10 e/E mark
Warranty	12 months return to base. Extended warranties available

*This is a preliminary specification only and hence is subject to change without notice*

## SERVICE

Customer Service	Friendly, helpful service for product ordering and repair returns
Technical Support	Comprehensive pre- and post-sale technical support for full life of the product
Warranty	12 month warranty, extended warranties and factory repair/replacement programmes
Long Term Supply	Complete support for full life of the product
Quality Management	Microbus operates a quality management system complying with ISO 9001:2000
Training	Comprehensive product training programmes for customers



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