

# Falcon<sup>®</sup> VMT12

## Rugged Vehicle Mount Computer



### Features:

- 12.1" TFT Color Touchscreen SVGA Display
- Compact Form Factor Takes Similar Space as 10" Models
- Powerfull 1.0 GHz VIA Processor
- Choice of Microsoft Windows Operating Systems
- PSC PowerScan RF Integration optional
- Cisco 802.11a/b/g Radio
- IP65 Sealed Enclosure ; Jet of Water IP-67
- Rugged Milled Aluminum Enclosure
- Choice of Keyboards (optional)

### Accessories:

- Keyboards
- PowerScan<sup>®</sup> RF
- PowerScan wired
- Mounting brackets (for keyboard & PowerScan)
- Flash Disk
- Power Adapters

### Display

- 30.7cm (12.1") diagonal,
- TFT 256 k colours,
- 800 x 600 SVGA, 420 NITS Resistive Touch Screen;
- optional: 1000 NIT Sunlight Viewable Display, XGA 1024x768

### Mechanical

- Dimensions: (w x h x d)  
30.48cm x 23.62cm x 6.09cm  
12" x 9.3" x 2.4"
- Weight: 3.9 kg / 8.6 lbs /  
(excluding brackets & keyboard)

### Construction:

- Enclosure: Precision Milled Aluminium

### Electrical

- Power Supply: 9-36 VDC
- (13.8 VDC minimum with PS/RF required)
- 18-55 VDC
- External Power Converter: (optional) 110/220V AC/DC
- Power Supply: (optional) Internal Lithium Battery Backup (BIOS & Clock only)

### Power Consumption:

- 10W standby, 25W average; 45W maximum

### Environmental

- Temperature rating
- Operating: -20° C to +55° C / -4° F to +131° F C / -22° F below -20° C to -30° C with Flash Disk
- Storage: -30° C to +78° C / -22° F to +176° F
- Humidity: 10 - 95% RH, non-condensing
- Sealing: IP65; Jet of Water IP-67 optional with Sealing Kit
- Vibration: 5-500Hz/4.5g RMS 3 hours XYZ (non rotating disks);
- Shock: 30g for 11ms (non rotating disks) MILSPEC 810E and 810C compliant; Track vehicle tested; High Accelerated Life Tested (HALT)

### Operating System:

- Windows XP Embedded English (standard), XP Pro English, XP Pro MUI (Multi User Interface)

### Processor:

- VIA 1GHz (standard) 1.4 GHz Pentium M optional

### Memory

- 256 RAM standard, 512 MB or 1 GB optional

### Storage

- 20 GB HDD, optional: 40 GB HDD, 2 or 4 GB Compact Flash Disk, 2 or 4 GB ATA Fixed Flash Drive

### Sound:

- Sound Blaster 16 Compatible, Sound Blaster AC97 (Pentium M only)

### Graphics:

- Rage Mobility VGA Controller,

## Data Sheet

- Intel<sup>®</sup> 855GM w/ 32MB Intel<sup>®</sup> Extreme Graphics 2 technology (Pentium M only)

### Communication Ports:

- 2 Serial ports RS 232C (115 Kb/s max) Com 1: 12VDC on pin 92 ; 2 x USB 1.1 A, 2 x USB 2.0 (Pentium M) ;
- Ethernet 10/100-TP RJ451
- Mouse/Keyboard port (PS/2) Buzzer, Mic, CD in and line out stereo
- PC Card Slots: 2 type II or 1 type III (PCMCIA) or 1 type III 32 bit; 1 firewire

### Keyboard:

- Choice of separate tethered keyboards (keyboard mount available); NEMA 4 sealed 82-key with 2 button pointing device, 10 FN Keys, backlight; or on-screen Virtual Keyboard

### Safety & Regulatory

- DIN 40050 Part 9 IEC 529
- Safety: UL94, Class VO
- FCC: Part 15 Class B
- E-Vehicle directive certified
- International Safety: CE Vehicle, FCC light industry
- Electrical: ISO7632-1, reverse polarity, dual battery
- EMC Suceptibility: ISO7637-1. -2, EN61000-4-2
- EMC Emissions: EN55022
- Temperature: IEC 68-2-36 Fdb, IEC 68-2-27,
- IEC 68-2-1 Ad IEC 68-2-2 Bc, IEC 68-2-30 Db,
- IEC 68-2-1 Aa, -2 Ba, 14 Na



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