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**MIDCOM Data Technologies, Inc.**  
*"Your Business. The Right Solution."*

**DT Research**  
 Embedded Controllers/ Systems  
 Modular Thin Platforms for Embedded Applications

The DT Research Embedded Controllers/ Systems offer low cost yet elegant solutions in robust packaging designed for flexibility in location and orientation. The compact design of the products is complemented by USB, networking, audio and display ports with available wireless options. A selection of operating software offers optimal user experience for Internet/Intranet access and server-based computing.








**• Applications**

The DT Research Embedded Controllers/ Systems are ideal for the following applications:

- Control/ Monitoring
- Inventory/ Warehousing
- Manufacturing
- Entertainment/ Gaming
- Education
- Retail
- Hospitality
- Healthcare



## • Specifications

|                                     |      |  |  |  |      |  |  |
|-------------------------------------|---|---|---|---|---|---|---|
| Model                               | DT166   | DT168   | DT162   | DT135D  | DT180T  | DT180P  | DT136   |
| <b>System</b>                       |   |   |   |   |   |   |   |
| CPU                                 | AMD Geode™ LX 800   |   | Intel® Atom™ Dual Core, 1.86GHz   | AMD Fusion Dual Core, 1.6GHz  | Intel® Celeron® T3100, 1.9GHz   | Intel® Core™ 2 Duo, 2.26GHz   | Intel® Core™ i3 or i7   |
| Chipset/GPU                         | Integrated in the CPU   |   | Intel® NM10/SGX545  | AMD Hudson  | Intel® GM45   |   | Intel® HM76   |
| RAM                                 | 128MB or 512MB  |   | 2GB   | 2GB to 4GB  | 2GB   |   | 4GB to 8GB  |
| Storage                             | 64MB or 1GB Flash; 160GB HDD  |   | 320GB HDD   | 8GB, 32GB or 64GB Flash   | 8GB, 32GB or 64GB Flash   |   | 32GB, 64GB or 128GB Flash   |
| Operating System                    | Microsoft® Windows® CE, Windows® XP Embedded, or Windows® XP Pro for Embedded Systems |   | Linux, Microsoft® Windows® Embedded Standard 7 or Windows® 8                      | Linux, Microsoft® Windows® XP Embedded or Embedded Standard 7                     | Microsoft® Windows® XP Embedded, XP Pro, Windows® Embedded Standard 7 or Windows® 7 Pro |   | Microsoft® Windows® Embedded Standard 7 or Windows® 7 Pro                           |
| TPM                                 | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | TPM 1.2   |
| Resolution                          | Up to 1280 x 1024   | Up to 1280 x 1024   | Up to 1920 x 1080   | Up to 1920 x 1080   | Up to 1920 x 1080   | Up to 1920 x 1080   | Up to 1920 x 1080   |
| Network Interface                   | 10/ 100MB BaseT LAN; Wi-Fi 802.11a/b/g (optional)                                     |   | 10/ 100/ 1000MB BaseT LAN; Wi-Fi 802.11b/g/n (optional)                           | 10/ 100/ 1000MB BaseT LAN; Wi-Fi 802.11a/b/g/n (optional)                         | 10/100/1000 BaseT LAN; Wi-Fi 802.11a/b/g or Wi-Fi 802.11a/b/g/n (optional)              |   | 10/100/1000MB BaseT LAN x 2; Wi-Fi 802.11 a/b/g/n (optional)                        |
| Card Reader                         | N/A   | N/A   | 1, reads SD/MMC/MS pro cards  | N/A   | N/A   | N/A   | N/A   |
| <b>I/O Ports</b>                    |   |   |   |   |   |   |   |
| Expansion                           | Mini PCI  | Mini PCI  | Mini PCIe   | Mini PCIe   | Mini PCIe   | Mini PCIe   | Mini PCIe   |
| HDMI                                | N/A   | N/A   | 1   | N/A   | 1   | 1   | N/A   |
| DVI                                 | N/A   | N/A   | N/A   | 1   | N/A   | N/A   | 1   |
| VGA                                 | 1   | 1   | 1   | N/A   | 1   | 1   | N/A   |
| DisplayPort++                       | N/A   | N/A   | N/A   | 1   | N/A   | N/A   | 1   |
| Audio Jack                          | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
| USB Ports                           | 4   | 4   | 3   | 4   | 2   | 2   | 4   |
| Serial/ COM                         | N/A   | 2   | 1   | 2   | 1   | 1   | 2   |
| Parallel                            | N/A   | 1   | N/A   | N/A   | N/A   | N/A   | N/A   |
| DC-in                               | 1   | 1   | 1   | 1   | 1   | 1   | 2 (include Phoenix connector for 12-24V DC in)                                      |
| IR Receiver                         | N/A   | N/A   | 1   | N/A   | N/A   | N/A   | N/A   |
| Ethernet                            | 1 RJ45 connector  | 1 RJ45 connector  | 1 RJ45 connector  | 1 RJ45 connector  | 1 RJ45 connector  | 1 RJ45 connector  | 2 RJ45 connector  |
| Optional Ports                      | Wi-Fi dipole antenna  |   |   | Wi-Fi dipole antenna/ Smart card reader   | Wi-Fi dipole antenna  |   |   |
| <b>Mechanical and Environmental</b> |   |   |   |   |   |   |   |
| Fan/Fanless                         | Fanless   | Fanless   | Fanless   | Fanless   | Fan   | Fan   | Fanless   |
| AC/DC Adapter                       | Input: 100 – 240V AC; Output: 12V DC  |   |   | Input: 100 – 240V AC; Output: 19V DC  | Input: 100 – 240V AC; Output: 18.5V DC  |   | Input: 100-240 V AC; Output: 18.5V DC / Phoenix: 12-24V DC, 3.5A                    |
| Enclosure                           | Aluminum chassis; ABS plastics end-caps   |   | Aluminum + plastics   | Aluminum + steel  |   |   |   |
| Dimensions (H x W x D)              | 1.4 x 5.5 x 5.1 in/ 35 x 140 x 130 mm   | 1.8 x 5.7 x 5.1 in/ 46 x 144 x 130 mm   | 1.8 x 5.03 x 5.31 in/ 46 x 128 x 135 mm   | 2.16 x 5.82 x 6.5 in/ 55 x 148 x 165.1 mm   | 2.16 x 5.82 x 6.5 in/ 55 x 148 x 165.1 mm   |   | 2 x 8.3 x 7.87 in/ 50 x 210 x 200 mm  |
| Weight                              | 0.88 lbs/ 400 g   | 1.45 lbs/ 660 g   | 1.91 lbs/ 864 g   | 2.9 lbs/ 1316 g   | 2.9 lbs/ 1316 g   |   | 5.51 lbs/ 2500 g  |
| Regulatory                          | FCC Class B, CE, C-Tick, UL, RoHS compliant   |   | FCC Class B, CE, RoHS compliant   | FCC Class B, CE, C-Tick, RoHS compliant   | FCC Class B, CE, C-Tick, UL, RoHS compliant   |   |   |
| VESA Mounting Bracket               | Not included  | Not included  | Not included  | Included  | Included  | Included  | Included  |
| Temperature                         | Operation: 0°C – 40°C; Storage: -20°C – 60°C  |   | Operation: 0°C – 40°C; Storage: -20°C – 70°C                                      | Operation: 0°C – 40°C; Storage: -20°C – 60°C                                      |   |   |   |
| Humidity                            | 0% – 90% non-condensing   |   | 5% – 90% non-condensing   | 0% – 90% non-condensing   |   |   |   |

\* Specifications subject to change without notice.



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VESA mounting bracket included  
\*except for DT162, DT166, DT168