



Embedded Controllers/ Systems

Modular Thin Platforms for Embedded Applications

The DT Research Embedded Controllers/ Systems offer compact and fan-less packaging designed for flexibility, space-saving in location and orientation. Feature the integration of a range of operating systems, energy efficient processors and graphic chipsets into robust enclosure, the Embedded Controllers/ Systems provide powerful computing and graphics capabilities for different applications.

From cost-effective to high-end model options equipped with a variety of I/O ports, such as USB, networking, combination of VGA, DVI and HDMI, and dual COM ports, the Embedded Controllers/ Systems provide multi-screen display and rich peripheral-connecting abilities. With smart card reader or wireless options, these devices also offer optimal user experience for instant data capturing and cable-free transmitting.

Along with reliable operation, extended operating life and remote management technology, the Embedded Controllers/ Systems minimize the IT maintenance efforts and lower the total cost of ownership.









• 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	DT160	DT122	DT135D	DT136	DT180T	DT180P	
System									
CPU	AMD Geode™ LX 800		1.5GHz x86	Intel® Atom™ Z530, 1.6GHz	AMD Fusion Dual Core, 1.6GHz	Intel® Core™ i3, 2.93GHz or Core™ i7, 2.7GHz	Intel® Celeron® T3100, 1.9GHz	Intel® Core™ 2 Duo, 2.26GHz	
GPU	Integrated in the CPU		VIA CX700M	Poulsbo SCH	AMD Hudson	Intel® HM65	Intel® GM45		
RAM	128MB or 512MB		512MB or 1GB	2GB	2GB to 4GB	4GB to 8GB	2GB		
Storage	64MB or 1GB Flash; 160GB HDD		64MB to 16GB Flash; 160GB HDD	8GB to 16GB Flash or 32GB to 64GB SSD	8GB, 32GB or 64GB Flash	32GB, 64GB or 128GB Flash	8GB, 32GB or 64GB Flash		
Operating System	Microsoft® Windows® CE, Windows® XP Embedded, or Windows® XP Pro for Embedded Systems			Microsoft® Windows® XP Embedded or Windows® XP Pro for Embedded Systems	Linux, Microsoft® Windows® XP Embedded or Embedded Standard 7	Microsoft® Windows® Embedded Standard 7 or Windows® 7 Pro	Microsoft® Windows® XP Embedded, XP Pro, Windows® Embedded Standard 7 or Windows® 7 Pro		
TPM	N/A	N/A	N/A	N/A	N/A	TPM 1.2	N/A	N/A	
Resolution	Up to 1280 x 1024		Up to 1920 x 1080	Up to 1280 x 1024	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 802.11a/b/g/n (optional)		10/100/1000MB BaseT LAN x 2; Wi-Fi 802.11 a/b/g/n (optional)	10/ 100/ 1000MB BaseT LAN; Wi-Fi 802.11a/b/g/n (optional)		
I/O Ports									
Expansion	Mini PCI	Mini PCI	Mini PCI	PCI Express	PCI Express	PCI Express	PCI Express	PCI Express	
HDMI	N/A	N/A	N/A	1	N/A	1*	1	1	
VGA	1	1	N/A	N/A	1	1*	1	1	
DVI	N/A	N/A	1	1	1	1*	N/A	N/A	
Audio Jack	2	2	3	2	2	2	2	2	
USB Ports	4	4	4	4	4	4	2	2	
Serial/ COM	N/A	2	N/A	N/A	2	2	1	1	
Parallel	N/A	1	N/A	N/A	N/A	1	N/A	N/A	
PS/2	N/A	N/A	N/A	N/A	N/A	2	N/A	N/A	
DC-in	1	1	1	1	1	2 (include Phoenix connector for 12-24V/DCin)	1	1	
Ethernet	1 RJ45 connector	1 RJ45 connector	1 RJ45 connector	1 RJ45 connector	1 RJ45 connector	2 RJ45 connector	1 RJ45 connector	1 RJ45 connector	
Optional Ports	Wi-Fi dipole antenna				Wi-Fi dipole antenna/ Smart card reader		Wi-Fi dipole antenna		
Mechanical and Environmental									
Fan/Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fan	Fan	
AC/DC Adapter	Input: 100 – 240V AC; Output: 12V DC			Input: 100 – 240V AC; Output: 19V DC		Input: 100-240 V AC; Output: 18.5V DC / Phoenix: 12-24V DC, 3.5A	Input: 100 – 240V AC; Output: 18.5V DC		
Enclosure	Aluminum chassis; ABS plastics end-caps		Aluminum chassis; Magnesium-aluminum end-caps	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	1.7 x 5.5 x 5.1 in/ 43 x 140 x 130 mm	1.4 x 5.5 x 5.1 in/ 35 x 140 x 130 mm	2.16 x 5.82 x 6.5 in/ 55 x 148 x 165.1 mm	2.75 x 9.8 x 7.87 in/ 70 x 250 x 200 mm	2.16 x 5.82 x 6.5 in/ 55 x 148 x 165.1 mm		
Weight	0.88 lbs/ 400 g	1.45 lbs/ 660 g	1.2 lbs/ 544 g	0.88 lbs/ 400 g	2.9 lbs/ 1316 g	6.97 lbs/ 3160 g	2.9 lbs/ 1316 g		
Regulatory	FCC Class B, CE, C-Tick, UL, 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	Integrated with the enclosure	Included	Included	
Temperature	Operation: 0°C – 40°C; Storage: -20°C – 60°C								
Humidity	0% – 90% non-condensing								

* Specifications subject to change without notice.

* Support for up to two displays at one time (e.g. HDMI and VGA only, or VGA and DVI only)



VESA mounting bracket included
*except for DT160, DT166, DT168

Product Configurator



www.dtresearch.com/productconfig

DT Research
www.dtresearch.com

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