



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
System							
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 Window® 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
I/O Ports							
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		
Mechanical and Environmental							
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.

