

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 these computers is complemented by USB, networking, audio and display ports, and optional wireless. A selection of operating software offers optimal user experience for Internet/Intranet access and server-based computing.



Features

- Intel® or AMD processor
- High performance with low power consumption
- Compact and robust design
- Support for Microsoft® Windows® CE, XP Embedded, Embedded Standard 7, or 7 Pro operating system
- VGA, DVI, HDMI or DP++ video outputs
- Integrates major thin-client/server computing protocols (Citrix ICA, Microsoft RDP) and web browsers
- Comprehensive remote device administration through server-based WebDT Device Manager software
- Internal 802.11 wireless adapter and Wi-Fi dipole antenna option

Applications

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

• Specifications

							
Model	DT166	DT168	DT135D	DT135BT	DT180P	DT136	DT136HU
System							
CPU	AMD Geode™ LX 800		AMD Fusion Dual Core, 1.6GHz	Intel® Celeron® Quad Core	Intel® Core™ 2 Duo, 2.26GHz	Intel® Core™ i3	Intel® Core™ i7
RAM	512MB	128MB or 512MB	2GB to 4GB	4GB to 8GB	2GB	4GB to 8GB	4GB to 8GB
Storage	1GB Flash	64MB or 1GB Flash	32GB or 64GB Flash	32GB to 512GB Flash	32GB or 64GB Flash	32GB, 64GB or 128GB Flash	64GB to 512GB Flash
Operating System	Microsoft® Windows® XP Embedded	Microsoft® Windows® CE or Windows® XP Embedded	Microsoft® Windows® Embedded Standard 7 or Windows® 7 Pro		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	TPM 1.2	N/A
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 3840 x 2160
Network Interface	10/ 100MB BaseT LAN; Wi-Fi 802.11a/b/g (optional)		10/100/1000 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)	
Smart Card Reader	N/A	N/A	Ominkey smart card reader (optional)	N/A	N/A	N/A	N/A
I/O Ports							
HDMI	N/A	N/A	N/A	2	1	N/A	3
DVI	N/A	N/A	1	N/A	N/A	1	N/A
VGA	1	1	N/A	N/A	1	N/A	N/A
DisplayPort++	N/A	N/A	1	N/A	N/A	1	N/A
Audio Jack	2	2	2	1	2	2	1
USB Ports	4 (USB 2.0)	4 (USB 2.0)	4 (USB 2.0)	1 (USB 2.0), 1 (USB 3.0)	2 (USB 2.0)	4 (USB 2.0)	2 (USB 2.0), 2 (USB 3.0)
Serial/ COM	N/A	2	2	N/A	1	2	N/A
Parallel	N/A	1	N/A	N/A	N/A	N/A	N/A
DC-in	1	1	1	1	1	2 (include Phoenix connector for 12-24V DC in)	1
Ethernet	1 RJ45 connector	1 RJ45 connector	1 RJ45 connector	1 RJ45 connector	1 RJ45 connector	2 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	Fanless	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	Input: 100 – 240V AC; Output: 19V DC
Enclosure	Aluminum chassis; ABS plastics end-caps		Aluminum + steel			Aluminum chassis; ABS plastics end-caps	
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	2.16 x 5.82 x 6.5 in/ 55 x 148 x 165.1 mm	1.3 x 5.82 x 6.5 in/ 33 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	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	2.9 lbs/ 1316 g	1.9 lbs/ 860 g	2.9 lbs/ 1316 g	5.51 lbs/ 2500 g	5.51 lbs/ 2500 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		FCC Class A, RoHS compliant	FCC Class B, CE, UL, RoHS compliant
VESA Mounting Bracket	Not included	Not included	Included	Included	Included	Included	Included
Temperature	Operation: 0°C – 40°C; Storage: -20°C – 60°C						
Humidity	0% – 90% non-condensing						

* Specifications subject to change without notice.

