DLT-V83 Series

Rugged, High-Performance Vehicle-Mounted Terminal

Features

- 10/12/15" color TFT display
- Intel® Core™ i5-4300U/Celeron® 2980U dual-core processor
- Rugged, IP66-rated design with 5M2/5M3 certification
- Fully configurable to support specific application requirements
- IK08-certified touchscreen for impact tolerance and abrasion resistance
- Wide operating temperature range (-30 ~ 50 °C/-22 ~ 122 °F) to withstand extreme environments
- Supports latest WLAN standard with seamless Wi-Fi roaming capability
- Supports WWAN for outdoor operations
- Certified with SOTI and Navis N4 software
- Equipped with DeviceOn/iService software for remote device management

DeviceOn/iService

Introduction

The DLT-V83 series are rugged vehicle-mounted terminals designed to increase productivity and maximize system uptime for logistics applications. Powered by an Intel® Core™ i5/Celeron® processor, DLT-V83 terminals support a wide operating temperature range (-30 ~ 50 °C/-22 ~ 122 °F) to withstand operation in extreme industrial environments (from hot and humid, to dry freezer environments). Deployment of this series ensures data integrity and integration across all logistics operations. Furthermore, the high system configurability, connectivity, and interface diversity allows the terminals to be easily customized to support specification application requirements.

Moreover, DLT-V83 series is equipped with Advantech's DeviceOn/iService software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn/iService enables easy device configuration and deployment for convenient remote device management.

Specifications

System	CPU	Intel® Core™ i5-4300U dual-core, 1.9 GHz, with 4/8 GB RAM Intel® Celeron® 2980U dual-core, 1.6 GHz, with 4/8 GB RAM
	Storage	16 GB - 256 GB CFast 512 GB 2.5" SSD (Optional)
Housing		Coated aluminum with completely sealed, fanless design
Dimensions (W x H x D)	DLT-V8310	289.3 x 262.8 x 89 mm (11.39 x 10.35 x 3.50 in)
	DLT-V8312	328.4 x 293.9 x 94.7 mm (12.93 x 11.57 x 3.73 in)
	DLT-V8315	390 x 342 x 98 mm (15.35 x 13.46 x 3.86 in)
Weight	DLT-V8310	4.3 kg (9.47 lb) without antenna
	DLT-V8312	5.5 kg (12.12 lb) without antenna
	DLT-V8315	6.2 kg (13.66 lb) without antenna
Display	DLT-V8310 (i5 and Celeron Models)	10.4" XGA color TFT with 1024 x 768 resolution and 400 cd/m² brightness
	DLT-V8310 (Celeron Model)	10.4" SVGA color TFT with 800 x 600 resolution and 400 cd/m² brightness
	DLT-V8312 (i5 and Celeron Models)	12.1" XGA color TFT with 1024 x 768 resolution and 500 cd/m² brightness
	DLT-V8315 (i5 and Celeron Models)	15.1" XGA color TFT with 1024 x 768 resolution and 400 cd/m² brightness
Touchscreen	Type	High-impact tolerant touchscreens available with two control types: - Resistive touchscreen with 5/26 x control buttons - Sunlight-readable resistive touchscreen with 26 x control buttons (Celeron model only)
Control Buttons	Front Panel	26 keys control buttons (for 10", 12", and 15") 5 keys control buttons (for 10", on request)
Software	Operating System	Windows 10 IoT Enterprise LTSC, Debian based Linux (on request)
	Emulations (Third-Party)	VT100, VT220, IBM 5250, TN 3270, Citrix Client®
Communication	WLAN	WLAN IEEE 802.11 a/b/g/n/ac (Optional)
	WWAN	WWAN (LTE, UMTS, HSPA+, GSM, GPRS, EDGE) (Optional)
	LAN	Ethernet 10/100/1000 Mbit/s with optional secondary Ethernet
	WPAN	Bluetooth 5.0 (Optional)
I/O Interfaces	Serial	2 x RS-232, alternatively 1 x RS-232 and RS-422/485
	USB	3 x USB 2.0 (Hi-Speed™) bootable, 1 x service USB 2.0 (Hi-Speed™) bootable
	CAN	Optional
	External Antennas	2 x RSMA for WLAN, 2 x SMA for WWAN (optional)
Audio		1 x integrated speaker (2W)
Power Supply (Internal)		12/24/48 V_{DC} nominal voltage with automatic Power On/Off functionality via vehicle ignition; 110/230 V_{AC}, 50/60 Hz, optional for DLT-V8315
Environmental	IP Rating	IP66 rating for the entire system
	Touchscreen Durability	IK08 according to IEC 62262
	Operating Temperature	-30 ~ 50 °C (-22 ~ 122 °F)
	Relative Humidty	10 to 90% at 40 °C (104 °F), non-condensing
	Shock/Vibration	5M3(EN 60721-3-5) for 10" and 12", 5M2 (EN 60721-3-5) for 15" and MIL-STD 810F (US highway truck vibration exposure)
Certification		CE Immunity Class A, Emission Class B/FCC Class B, CCC (for China)

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Specifications Cont.

	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	✓ (VNC)
	Device-Specific Audio Control	✓
	Connection Status	✓
DeviceOn/iService Remote Device Management	Hardware Status	✓*
	Hard Disk Status	✓*
	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software Application Update	✓
	Software Watchlist	✓
	Software Start/Stop	✓*
*Dependant on device model	Kiosk Mode	
	Peripherals Watchlist	✓*

Note: DeviceOn/iService software must be downloaded from the Advantech website at https://www.advantech.com/search/?q=DeviceOn%2FiService&st=support&sst=Utility

Dimensions

Unit: mm

DLT-V8310

289.3
89
75
233.3
262.8
75

DLT-V8312

328.4
94.7
75
263.7
293.9
75
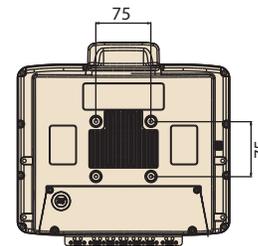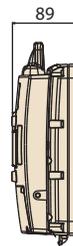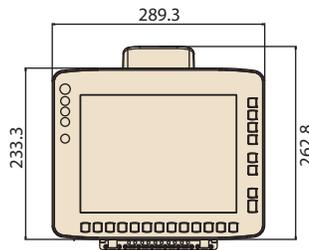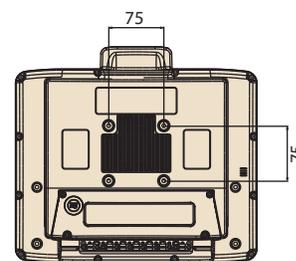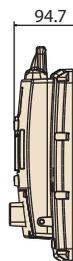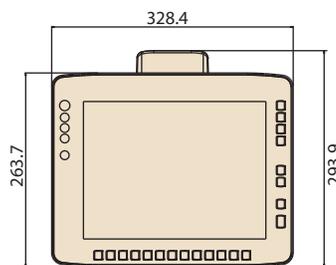
DLT-V8315

390
98
75
313
342
75
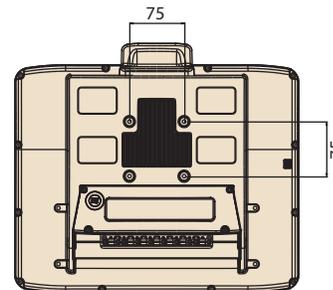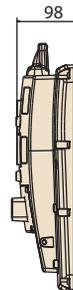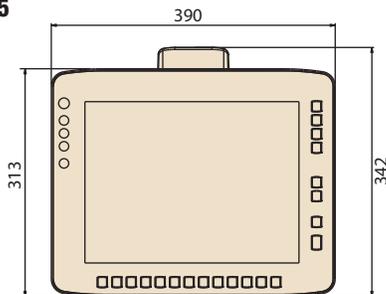
Ordering Information

Part Number	Description	Display	CPU	Touch	Power
DLV8310-1C100F0	DLT-V8310C FL barebone 4GB res XGA 26key	10.4" XGA	Intel® Celeron® 2980U Dual Core 1.6 GHz	Resistive touch	DC
DLV8310-1F100F0	DLT-V8310C FL barebone 4GB res SVGA 5key	10.4" SVGA	Intel® Celeron® 2980U Dual Core 1.6 GHz	Resistive touch	DC
DLV8312-1C100F0	DLT-V8312C FL barebone 4GB res XGA 26key	12.1" XGA	Intel® Celeron® 2980U Dual Core 1.6 GHz	Resistive touch	DC
DLV8315-1C100F0	DLT-V8315C FL barebone 4GB res XGA 26key	15.1" XGA	Intel® Celeron® 2980U Dual Core 1.6 GHz	Resistive touch	AC

Further configurations on request!

Optional Accessories

Part Number	Description
DL-MTKT009	Mobile Mounting Bracket
DL-MTRM004	RAM-Mount Set, one arm, arm length 130mm
DL-MTRM003	RAM-Mount Set, one arm, arm length 215mm
DL-MTRM001	RAM-Mount Set, two arms, arm length 150mm

Further configurations on request!

Mobile Mounting Bracket

RAM-Mount Set (one arm)

RAM-Mount Set (two arms)

I/O Connectors

VDC
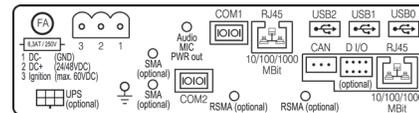
VAC –option only available for DLT-V8315
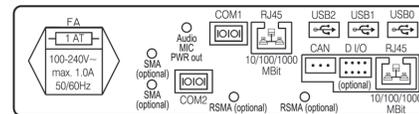
DeviceOn/iService

Unified Remote Device Management Software
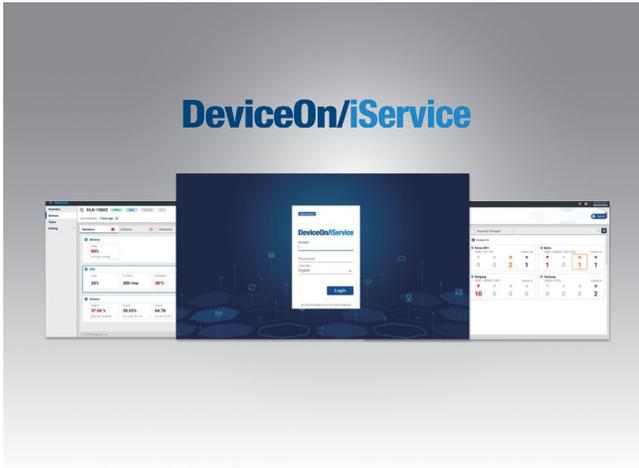
Features

- Supports Advantech devices equipped with Windows, Android, and Linux OS
- Flexible device, location, user, and permissions management
- Enables remote monitoring and control of hardware, software, and peripherals
- Supports over-the-air (OTA) firmware and software updates
- Ensures quick, easy, and secure device onboarding
- RESTful APIs for third-party system integration

Introduction

Advantech's DeviceOn/iService is a next-generation unified device management solution based on the WISE-DeviceOn platform. Designed to enable centralized monitoring and remote management, DeviceOn/iService supports Advantech devices equipped with Windows, Linux, or Android operating systems. The software also supports the management of applications and integrated peripherals, such as a barcode scanner, card reader, camera, and printer. Users can remotely access and control connected devices, take screenshots, rollout OTA upgrades, and use remote desktop capabilities for troubleshooting from any location at any time. Moreover, DeviceOn/iService supports batch operations to facilitate the management of multiple devices simultaneously for easy and convenient device configuration and deployment.

Total Management

Devices & Hardware
- Windows, Linux, Android
- Hardware, storage, battery

Software & Peripherals
- Software monitoring & access
- Screens, USB devices, printers

Open for Expansion
- Peripheral integration
- Open APIs for integration

Remote Access

Real-Time Monitoring
- Connection/hardware status
- Software/peripheral status
- Failure notifications

Remote Controls
- Power controls
- Audio, backlight controls
- Software controls

Troubleshooting
- Screenshots
- Remote desktop support

Operational Efficiency

OTA updates
- System/software updates
- File repository management
- App store

Batch Controls
- 1-to-many batch reboot, etc.
- Time-saving tasks

Setup Booster
- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

System Architecture

Client Devices — LAN — **DeviceOn Server** — Internet — **Browser**

Client Devices: Hardware, Software, Peripherals
Free Installation
Via the Advantech website

DeviceOn Server: Cloud, On-site installation
Download Installer
Via the Advantech website

Browser: Monitor status, Controls
Free Installation
Via browser

Required Hardware
Windows10 · 8GB RAM · Intel® Core™ i5 storage · 125GB

Online Download www.advantech.com/products