

APEX MT70/71

7" RUGGED MOBILE DATA TERMINAL

AMREL[®]
Pioneering Customized Rugged Solutions

Intuitive Interface with Flexible Choices for Fleet Management & Other In-vehicle Applications



Options not problems

APEX MT70 and **APEX MT71** Rugged Mobile Display Terminals (MDT) give you choices, not hassles. Choose the APEX MT70 for its powerful Quad Core Cortex-A7 and the user-friendly Windows OS (Android available). You can also select the APEX MT71 for the efficient ARM architecture and the familiar Android OS. Both boast high-resolution, capacitive-touch WXGA TFT LCD 7" displays.

Fleet management efficiency

Designed to meet fleet management and other in-vehicle applications, the space-saving APEX MT70 and the APEX MT71 have the easy-to-use DashON Device Management Platform, which facilitates:

- System integration
- Device configuration
- Over-the air updates
- Communication setting
- Power management
- IO setting

Smart power management

APEX MT70 and **APEX MT71** support 9~36 VDC wide range power input. Both MDTs supply vehicle-grade power protection (ISO7637-2) against sudden surges, noise filtering, overvoltage/lower voltage, overcurrent, and other car power hazards. Backup power is supplied by UPS battery.

Multiple connectivity capabilities

Wireless options include WiFi 802.11, mobile hotspot support, Bluetooth 4.0, and high-speed broadband supports up to 4G LTE. Border crossing & driver identification are enabled by options for NFC and RFID. GNSS with dead-reckoning allows uninterrupted navigation and tracking.

Rich I/O interface

Built for industrial/commercial use, these MDTs have options for RS-232, USB 3.0, dual micro SIM, RJ-45, Digital, CAN bus (SAE J1939), & headphone jack.

Tough terminals for tough jobs

MDTs can take a lot of abuse inside a vehicle. That's why we built APEX MT70 and APEX MT71 to meet the stringent ruggedness requirements of IP-65 and MIL-STD 810G.

To customize DashOn for your needs, a SDK is provided.

SPECIFICATIONS - APEX MT70 / MT71 | 7" ULTRA-RUGGED VEHICLE COMPUTER

	APEX MT70 (7" Windows or Android)	APEX MT71 (7" Android only)
Architecture	<ul style="list-style-type: none"> • x86 Architecture 	<ul style="list-style-type: none"> • ARM Architecture
Operating System	<ul style="list-style-type: none"> • Windows 10 IoT Enterprise • Android 4.4 	<ul style="list-style-type: none"> • Android 5.1
CPU	<ul style="list-style-type: none"> • Intel® Atom™ E3815 1.46 GHz • Optional Intel® Atom™ E3826 1.46 GHz 	<ul style="list-style-type: none"> • Quad-core Cortex-A7 1.3GHz
Memory	<ul style="list-style-type: none"> • 2GB DDR3L SODIMM 	<ul style="list-style-type: none"> • 2GB LPDDR2 SDRAM
Storage	<ul style="list-style-type: none"> • 64GB mSATA 	<ul style="list-style-type: none"> • 16GB eMMC
Display	<ul style="list-style-type: none"> • 7-inch WXGA TFT LCD (1024 x 768) • 500 nits, supports auto-dimming • Capacitive multi-touch 	<ul style="list-style-type: none"> • 7-inch SVGA TFT LCD (1024 x 600) • 500 nits, supports auto-dimming • Capacitive multi-touch
Communication	<ul style="list-style-type: none"> • GNSS (GPS/QZSS or GLONASS or BeiDou), (optional dead-reckoning support) • Optional Wi-Fi 802.11 a/b/g/n/ac • Optional 4G LTE / GPRS / HSPA+ • Optional Bluetooth V4.0 Class 2 • NFC / RFID by request 	<ul style="list-style-type: none"> • Gigabit Ethernet (RJ45) • GNSS (GPS/GLONASS/BeiDou) • 4G LTE / HSPA+ / GPRS • Wi-Fi 802.11 a/b/g/n • Bluetooth V4.1
Sensor	<ul style="list-style-type: none"> • Built-in 3-axis G-sensor, dual speaker 	<ul style="list-style-type: none"> • Built-in 3-axis G-sensor, dual speaker
I/O Interface	<ul style="list-style-type: none"> • RS-232 with power supported x 1 • RS-232/422/485 x 1 • USB 3.0 x 1, USB 2.0 x 1 • Dual Micro SIM slot x 1 • Gigabit Ethernet (RJ45) x 1 • CAN bus (SAE J1939 supported) x 1 • Digital I/O x 4 • Headset jack x 1 	<ul style="list-style-type: none"> • RS-232 with power supported x 1 • RS-232/422/485 x 1 • USB 2.0 x 2 • Dual Micro SIM slot x 1 • CAN bus (SAE J1939 supported) x 1 • DI x 2, DO x 2 • Audio Headset jack x 1 • DC-in x 1
Buttons	<ul style="list-style-type: none"> • Programmable buttons x 5 • Volume buttons x 2 • System on/off x 1 	<ul style="list-style-type: none"> • Programmable buttons x 5 • Volume buttons x 2 • System on/off x 1
Power Management	<ul style="list-style-type: none"> • 9~36 VDC input • Vehicle power protection (ISO7637-2) • Ignition sense with time delay shut down • Remote power on, wake on SMS / RTC • UPS backup battery 	<ul style="list-style-type: none"> • 9~36 VDC input • Vehicle power protection (ISO7637-2) • Ignition sense with time delay on/off setting • UPS backup battery
Rugged Features	<p>IEC-60529 IP-65 (Except bottom side I/O) MIL-STD 810G:</p> <ul style="list-style-type: none"> • Vibration (operating), Method 514.7 c2/c3/c4 • Shock (operating), 40G at 11ms Terminal / Sawtooth • Operating temperature: -30°C to 60°C • Storage temperature: -30° C to 70° C • Humidity: 5-95% 	<p>IEC-60529 IP-65 (Except bottom side I/O) MIL-STD 810G:</p> <ul style="list-style-type: none"> • Vibration (operating), Method 514.7 c2/c3/c4 • Shock (operating), 40G at 11ms Terminal / Sawtooth • Operating temperature: -30°C to 60°C • Storage temperature: -30° C to 70° C • Humidity: 5-95%
Dimension & Weight	8.66" W x 5.98" H x 1.57" D (220 x 152 x 40 mm) 2.76 lbs. (1.25 kg)	8.66" W x 5.98" H x 1.57" D (220 x 152 x 40 mm) 2.76 lbs. (1.25 kg)
Mounting	VESA 75 - 2.95" x 2.95" (75 x 75 mm)	VESA 75 - 2.95" x 2.95" (75 x 75 mm)
Software	DashON Utility	DashON Utility
In-Box Accessories	<ul style="list-style-type: none"> • Power cable • GPS / GLONASS antenna • DB15 to USB cable • DB15 to DIO / CAN bus cable assemblies 	<ul style="list-style-type: none"> • Power cable • GPS / GLONASS antenna • DB15 to USB cable • DB15 to DIO / CAN bus cable assemblies
Accessories	<ul style="list-style-type: none"> • Mounting Kit • WWAN Antenna • WiFi / Bluetooth Antenna 	<ul style="list-style-type: none"> • Mounting Kit • WWAN Antenna • WiFi / Bluetooth Antenna

** Specifications subject to change without notice **