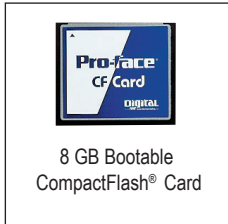


### APL3600K – 12.1” Keypad/Mouse/Touch-Panel PC



#### Operation



12.1-inch TFT Color LCD  
Touch-Panel Computer  
With Keypad and Mouse

## APL3600K

DC 24V  
AC100/240V  
SVGA  
12.1-inch

CPU: Intel® Celeron® M 1.86GHz or Intel® Core™ Duo 2.0GHz



#### Features:

- 12.1” (SVGA 800 x 600) TFT touch-panel computer with keypad, mouse
- Intel® Core™ Duo 2.0GHz or Intel® Celeron® M 1.86GHz CPU
- 250 GB Hard Drive, Solid State Drive or bootable Compact Flash
- DVD-RW standard
- Reliability, Availability, Serviceability (RAS) Remote Health Monitor
- SSD (Solid State Drive) for Reliability and faster data access

- Data protection – RAID1 hard disk option
- RoHS directive-conforming
- IP65f, NEMA 4/4x/12 Rated
- UL 1604, Class I, Div 2, Groups A, B, C, D

#### Open HMI WinGP Option

- Use PC as on-demand touch-screen HMI
- Allows third-party applications to run concurrently
  - SPC, vision, SCADA, MRP
- Expands PC hardware and data connectivity options

#### Performance Specifications

|                             | Performance  | Standard                           |
|-----------------------------|--|------------------------------------|
| Base Model                  | APL3600-KA-CD2G<br>APL3600-KD-CD2G   | APL3600-KA-CM18<br>APL3600-KD-CM18 |
| CPU                         | Intel® Core® Duo 2.0GHz  | Intel® Celeron® M 1.8GHz           |
| Supported OS                | Windows® XP Pro / XP ML  | Windows® XP Pro / XP ML            |
| Standard Memory             | 1GB/ 2GB/ 4GB  |                                    |
| Maximum Memory              | 4GB (SO-DIMM socket x 2)   |                                    |
| Graphics Display Resolution | SVGA (800 x 600 pixels)  |                                    |
| Video Memory                | Max 64MB (UMA type)  |                                    |
| Display Type and Size       | TFT Color LCD (12.1-inch)  |                                    |
| Display Colors              | 262,144 Colors   |                                    |
| Display Area                | W248.0mm [9.76 in.] x H186.5mm [7.34in.]   |                                    |
| Touch Screen                | Resistive Film (Analog) Touch Screen, 1024 x 1024  |                                    |
| Serial                      | COM1: RS-232C, D-sub 9 pin (plug) (R/+5V switchable, RS-422/RS-485 switchable)<br>COM2: RS-232C, D-sub 9 pin (plug) (R/+5V switchable)<br>COM3: RS-232C, D-sub 9 pin (plug)<br>COM4: RS-232C, D-sub 9 pin (plug) |                                    |
| LAN                         | Rear 2 ports. RJ-45 type modular jack connector (8 pins).<br>LAN1: auto change to 10BASE-T/100BASE-TX/1000BASE-T<br>LAN2: auto change to 10BASE-T/100BASE-TX   |                                    |
| USB                         | USB 2.0-compatible rear 4 ports, front 1 port. Disable/enable selectable   |                                    |
| Sound                       | Speaker out (3.5mm mini-pin jack connector)  |                                    |
| RAS (Remote Health Monitor) | Rear RAS connector - D-sub 9-pin (socket)  |                                    |
| Disk                        | 250 GB hard drive, 80-160 GB Solid State Drive. SATA interface.<br>IDE interface: Master: 8 GB CF card I/F. Slave: DVD-RW 1 slot   |                                    |
| PCI                         | PCI x 2 or PCI x 4; first 2 slots are: 174.63 [6.88 in.] x 106.68 [4.20 in.] mm;<br>Slots 3 and 4 are: 250 [9.84 in.] x 106.68 [4.20 in.] mm   |                                    |

#### General Specifications

|                                  |  |   |
|----------------------------------|--|---|
| Input Voltage                    | AC100 / 240V (Rated voltage AC85 to 264V; 50/60Hz)   | DC24V (Rated voltage DC19.2 to 28.8V)   |
| Power Consumption                | 145VA or less  | 145W or less  |
| Allowable Voltage Drop           | 1 cycle or less (Voltage drop interval must be 1s or more.)*1  | 5ms or less   |
| Voltage Endurance                | AC1500V 20mA for 1 minute (between charging and FG terminals)  | AC1000V 20mA for 1 minute (between charging and FG terminals)                     |
| Insulation Resistance            | DC500V 10MΩ(min.) (between charging and FG terminals)  |   |
| Certifications                   | UL 508; CSA-C22.2 No. 142-M1987; CE Marking EN61000-6-2, EN55011 Class A, EN60950-1 (Only AC Model) UL 1604, Class I, Div 2, Groups A, B, C, D   |   |
| Temperature                      | 0 to 50°C (32 to 122°F) without HDD; 5 to 50°C (41 to 122°F) with HDD; Storage Temperature: -20 to +60°C (-4 to 140°F)   |   |
| Humidity - Ambient/Storage       | 10 to 90% RH [Not condensing, wet bulb temperature: 39°C (122°F) or less; with HDD: 29°C (84.2°F) or less].  |   |
| Corrosive Gas                    | Free of corrosive gases  |   |
| Noise Immunity                   | Noise Voltage: 1500Vp-p, Pulse Duration: 50ns, 500ns, 1s Rise Time: 1µs (via noise simulator)  | Noise Voltage: 1000Vp-p, Pulse Duration: 1µs Rise Time: 1ns (via noise simulator) |
| Cooling Method                   | Forced air cooling by system fan and CPU fan   |   |
| Electrostatic Discharge Immunity | 6kV (complies with EN 61000-4-2 Level 3)   |   |
| Vibration Resistance             | IEC61131-2 compliant, With HDD: 10 to 57Hz half-amplitude 0.075mm, 57 to 150Hz constant-accelerated velocity 9.8m/s <sup>2</sup> . X, Y, Z directions for 10 cycle (100 minute)<br>Without HDD: 5 to 9Hz half-amplitude 3.5mm, 9 to 150Hz constant-accelerated velocity 9.8m/s <sup>2</sup> . X, Y, Z directions for 10 cycle (100 minute) |   |
| Shock during operation           | EN/IEC 60068-2-2 compliant, 147m/Sec, 11msec (Approx. 15G), 3 shocks to 3 direction/ axis  |   |
| Rating                           | Equivalent to IP65f, NEMA 4/4x/12 rated (only when not using front USB)*2  |   |
| Weight With DVD-RW               | 2 slots: Approx. 12.45kg [27.4lb]<br>4 slots: Approx. 13.45kg [29.6lb]   |   |
| External Dimensions With DVD-RW  | 2 slots:W 425mm [16.73in.] x H325mm [12.80in.] x D203mm [7.98in.]<br>4 slots: W425mm [16.73in.] x H325mm [12.80in.] x D255mm [10.03in.]  |   |
| Warranty                         | Two-year standard (maximum 4 years)  |   |

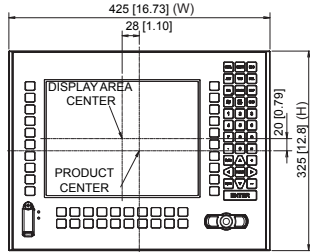
\*1 Depending on the combined total of the expansion slot power supply and external load power values, the allowable voltage drop may be 20ms or less. \*2 Meets IP65f testing requirements. Operation is not, however, guaranteed in every environment.

### APL3600K - External Dimensions

Dimensions shown with installation fasteners attached

#### APL3600K (2-slot)

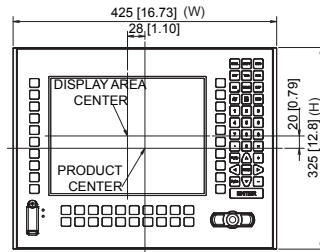
Unit: mm [in]



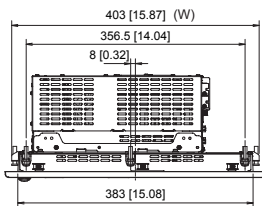
Front

#### APL3600K (4-slot)

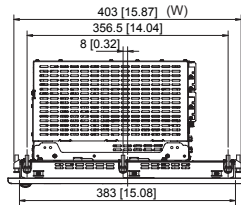
Unit: mm [in]



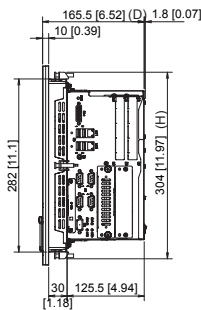
Front



Top

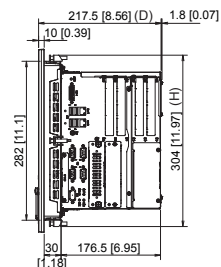


Top



Side

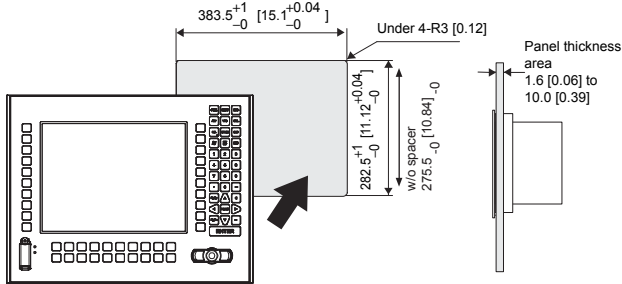
Units are shown without DVD; add 37.5mm [1.47"] to the depth (D).



Side

### APL3600K - Cutout Dimensions

Unit: mm [in]



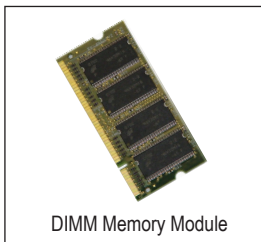
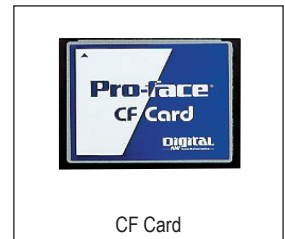
\* To be compatible with Xycom 4612KPM(T) need to detach spacers

### Optional Items

| Product Name                           |        | Part Number           |
|--|--------|-----------------------|
| DIMM Memory Module                     | 512 MB | CA7-DDR2-512MB        |
|  | 1 GB   | CA7-DDR2-1GB          |
|  | 2GB    | CA7-DDR2-2GB          |
| HDD Unit *1                            | 250 GB | APL3000-HD250         |
| CF Card*1                              | 512MB  | CA3-CFCALL/512MB-01   |
|  | 1GB    | CA6-CFCALL/1GB-01     |
|  | 2GB    | CA8-CFCALL/2GB-01     |
|  | 8GB    | 144766                |
| RAID-Kit                               |        | RAID-KIT-01           |
| USB Front Cable                        | 1m     | CA5-USBEXT-01         |
| USB Cable                              | 5m     | FP-US00               |
| RS-232C Cable                          | 5m     | FP61V-IS00-0          |
| DVI-D Cable                            | 5m     | FP-DV01-50            |
| Analog RGB Cable *2                    | 4.5m   | FP-CV02-45            |
| RGB Converter Cable                    | 5m     | CA7-CBLCVRGB-01       |
| DVI-D/RGB Branch Cable                 | 15cm   | CA7-CBLCVDVI-D/RGB-01 |
| External Floppy                        |        | 9000-USBF             |
| Backlight (2 pieces/set for 1 unit)    |        | CA3-BLU12-01          |
| Installation Fasteners                 |        | CA3-ATFALL-01         |
| Screen Protection Sheets (5-sheet set) |        | CA3-DFS15-01          |

\*1 Not installed with operating system.

\*2 When using the DVI-D/RGB branch cable.



**Caution:** Before operating any of these products, please be sure to read all related manuals thoroughly.

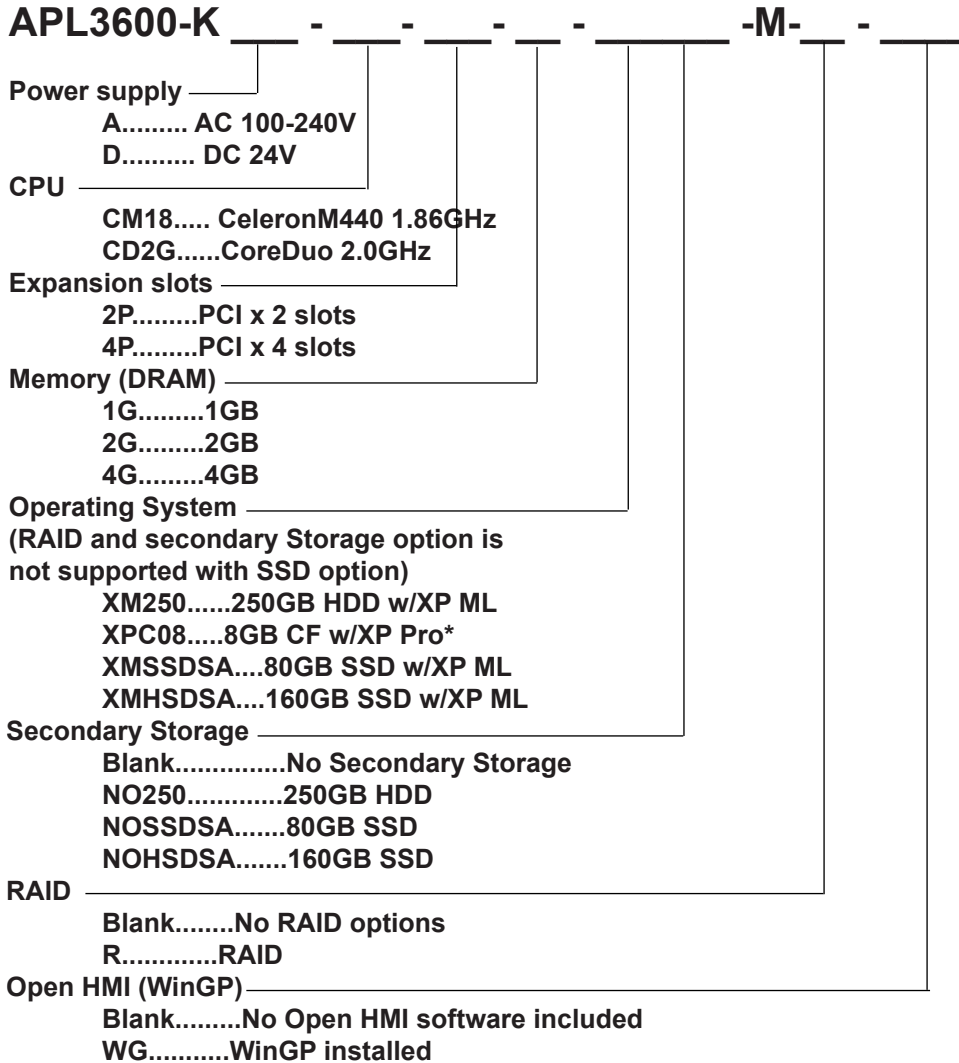
- All product names used in this document are trademarks or registered trademarks of their respective companies.
- All information contained in this document is subject to change without notice.

### APL3000 Cutout Compatibility

| If you have :   | This will fit the same cutout : | Notes:                 |
|---|---------------------------------|------------------------|
| 4612T, 3612T, 3510(T), 3512T, 3310T, 3410T, 9460(T), 9462(T), 9410T, 9412T, 3412T, 3312T                                      | APL3600T                        |                        |
| 4612KPM(T), 3612KPM(T) 3510KP(T), 3512KP(T), 9460KP, 9462KP, 9410KP(T), 3410KP(T), 3310KP(T), 9412KP(T), 3412KP(T), 3312KP(T) | APL3600K                        | *1                     |
| 4615T, 3615T  | APL3700T                        |                        |
| 4715T, 3715T, 3515(T), 3535T, 9465(T)   | APL3700T + Adapter plate        | Adapter plate : 145053 |
| 4715KPM(T), 4615KPM(T), 3615KPM(T), 3715KPM(T), 3515KPM(T), 3512KPM(T), 3535KPM(T), 9465KPM(T)                                | APL3700K                        |                        |

\*1 When you Migrate from 3612KPM(T)/4612KPM(T) to APL3600K requires removing attachment plate screwed on APL. More details see APL3000 series Hardware Manual. (The original cutout size with spacers is to keep compatibilities with PL3700, FP3710, AGP3750 and PS3710/11)

## Ordering Information



\*The languages included with this version of Windows XP Pro are English, French, Spanish, Brazilian Portuguese, Japanese, Simplified and Traditional Chinese.

**Pro-face America**  
Phone: 734.477.0060  
Fax: 734.864.7347  
www.profaceamerica.com

**Customer Service Hotline: 800.289.9266**

For more information  
**ACCESS** [www.profaceamerica.com](http://www.profaceamerica.com)

**Pro-face**  
for the best interface



# California Proposition 65 Warning—Lead and Lead Compounds

## Advertencia de la Proposición 65 de California—Plomo y compuestos de plomo

### Avertissement concernant la Proposition 65 de Californie—Plomb et composés de plomb

**⚠ WARNING:** This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠ ADVERTENCIA:** Este producto puede exponerle a químicos incluyendo plomo y compuestos de plomo, que es (son) conocido(s) por el Estado de California como causante(s) de cáncer y defectos de nacimiento u otros daños reproductivos. Para mayor información, visite : [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠ AVERTISSEMENT:** Ce produit peut vous exposer à des agents chimiques, y compris plomb et composés de plomb, identifiés par l'État de Californie comme pouvant causer le cancer et des malformations congénitales ou autres troubles de l'appareil reproducteur. Pour de plus amples informations, prière de consulter: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

All trademarks are the property of Schneider Electric SE, its subsidiaries, and affiliated companies.

**Schneider Electric USA, Inc.**  
800 Federal Street  
Andover, MA 01810 USA  
888-778-2733  
[www.schneider-electric.us](http://www.schneider-electric.us)

Todas las marcas comerciales son propiedad de Schneider Electric SE, sus filiales y compañías afiliadas.

Importado en México por:  
**Schneider Electric México, S.A. de C.V.**  
Av. Ejercito Nacional No. 904  
Col. Palmas, Polanco 11560 México, D.F.  
55-5804-5000  
[www.schneider-electric.com.mx](http://www.schneider-electric.com.mx)

Toutes les marques commerciales sont la propriété de Schneider Electric SE, ses filiales et compagnies affiliées.

**Schneider Electric Canada, Inc.**  
5985 McLaughlin Road  
Mississauga, ON L5R 1B8 Canada  
800-565-6699  
[www.schneider-electric.ca](http://www.schneider-electric.ca)