

Specifications

Electrical

Attribute	Value
400 and 600 Input voltage, DC Power consumption, DC	24V DC nom (18...30V DC) 25 W max (1.0 A at 24V DC)
700 to 1500 Input voltage, DC Power consumption, DC	24V DC nom (18...32V DC) 70 W max (2.9 A at 24V DC) 39 W typical (1.6A @ 24V DC)
400 and 600 Input voltage, AC Line frequency Power consumption, AC	85...264V AC 47...63 Hz 60V A max
700 to 1500 Input voltage, AC Line frequency Power consumption, AC	85...264V AC 47...63 Hz 160V A max, 65 VA typical
Remote power 700 to 1500 (2711P-RSAC) Input voltage, AC Line frequency Power consumption, AC	85...264V AC 47...63 Hz 120V A max
PCI slot max available power Supply, DC Supply, AC	11 W 5 W

Environmental

Attribute	Value
Temperature, operating	0...55 °C (32...131 °F)
Temperature, non-operating	-25...70 °C (-13...158 °F)
Heat dissipation 400 and 600 700 to 1500	85 BTU/hr 240 BTU/hr
Relative humidity	5...95% without condensation
Altitude, operating	2000 m (6561 ft)
Shock, operating	15 g at 11 ms
Shock, nonoperating	30 g at 11 ms

Vibration	10...57 Hz, 0.012 pk-pk displacement 57...500 Hz, 2 g pk acceleration
Enclosure Ratings	NEMA Type 12, 13, 4X (Indoor use only), IP54, IP65
Airborne Contaminants	For PVP/PVP-CE conformal-coated PCBA level products: ANSI/ISA S71.04 - 1985 Severity Level G3 EN60654-4:1998 Class 3

Display

Attribute	Value
Display type 400 and 600 grayscale 400...1500 color	Grayscale passive matrix, film compensated super-twist nematic (FSTN) Color active matrix, thin-film transistor (TFT) with liquid crystal display (LCD)
Display size, diagonal 400 grayscale 400 color 600 700 1000 1250 and 1250 high-bright 1500	3.8 in. 3.5 in. 5.5 in. 6.5 in. 10.4 in. 12.1 in. 15.0 in.
Display area (WxH) 400 grayscale 400 color 600 grayscale and color 700 1000 1250 and 1250 high-bright 1500	77 x 58 mm (3.0 x 2.3 in.) 71 x 53 mm (2.8 x 2.1 in.) 112 x 84 mm (4.4 x 3.3 in.) 132 x 99 mm (5.2 x 3.9 in.) 211 x 158 mm (8.3 x 6.2 in.) 246 x 184 mm (9.7 x 7.2 in.) 304 x 228 mm (12.0 x 9.0 in.)
Resolution 400 grayscale and 400 color 600 700 1000 1250 and 1250 high-bright 1500	320 x 240 320 x 240 640 x 480 640 x 480 800 x 600 1024 x 768
Luminance (typical) 400 grayscale 400 color 600 700 to 1500 1250 high-bright	120 cd/m ² Nits 200 cd/m ² Nits 300 cd/m ² Nits 300 cd/m ² Nits 1000 cd/m ² Nits

Backlight 400 600...1500 1250 High-bright	LED CCFL 50,000 hours life, min. Backlight not replaceable
Touch screen Actuation rating Operating force	Analog resistive 1 million presses 10...110 g
Keypad function keys ⁽¹⁾ Actuation rating Operating force	Function keys, numeric and navigation 1 million presses 340 g

⁽¹⁾ Number of function keys varies by terminal size.

Mechanical

Attribute	Value
Weight, approx., HxWxD (for base unit without modules)	
400 keypad ⁽¹⁾ or keypad and touch	562 g (1.24 lb)
600 keypad or keypad and touch ⁽¹⁾	930 g (2.05 lb)
600 touch ⁽¹⁾	789 g (1.74 lb)
700 keypad or keypad and touch	1.9 kg (4.2 lb)
700 Touch	1.7 kg (3.8 lb)
1000 keypad or keypad and touch	2.9 kg (6.3 lb)
1000 touch	2.6 kg (5.7 lb)
1250 keypad or keypad and touch	3.4 kg (7.6 lb)
1250 touch and 1250 high-bright touch	3.2 kg (7.1 lb)
1500 keypad or keypad and touch	4.6 kg (10.0 lb)
1500 touch	4.2 kg (9.3 lb)
Dimensions, approx. HxWxD (for base unit without communication module)	
400 keypad or keypad and touch	152 x 185 x 90 mm (6.0 x 7.28 x 3.54 in.)
600 keypad or keypad and touch	167 x 266 x 98 mm (6.58 x 10.47 x 3.86 in.)
600 touch	152 x 185 x 98 mm (6.0 x 7.28 x 3.86 in.)
700 keypad or keypad and touch	193 x 290 x 55 mm (7.58 x 11.40 x 2.18 in.)
700 touch	179 x 246 x 55 mm (7.04 x 9.68 x 2.18 in.)
1000 keypad or keypad and touch	248 x 399 x 55 mm (9.77 x 15.72 x 2.18 in.)
1000 touch	248 x 329 x 55 mm (9.77 x 12.97 x 2.18 in.)
1250 keypad or keypad and touch	282 x 416 x 55 mm (11.12 x 16.36 x 2.18 in.)
1250 touch	282 x 363 x 55 mm (11.12 x 14.30 x 2.18 in.)
1250 touch High-bright	282 x 363 x 74 mm (11.12 x 14.30 x 2.90 in.)
1500 keypad or keypad and touch	330 x 469 x 65 mm (12.97 x 18.46 x 2.55 in.)
1500 touch	330 x 416 x 65 mm (12.97 x 16.37 x 2.55 in.)

⁽¹⁾ Add approximately 95 g (0.21 lb) for communication module.

General

Attribute	Value
Battery life 400 and 600 700 to 1500	5 years min. at 25 °C (77 °F) 4 years min. at 25 °C (77 °F)
Clock	Battery-backed, +/-2 minutes per month
LED indicators	COMM (Green), Fault (Red)
Application flash memory 400 and 600, series A 400 and 600, series B or later 700 to 1500 logic modules, series A to D 700 to 1500 logic modules, series E or later 2711P-RW1 2711P-RW2 2711P-RW3	5 MB 10 MB 20 MB 26 MB 72 MB 195 MB
700-1500 CE logic modules, series E or later 2711P-RW6 2711P-RW7 2711P-RW8	80 MB 203 MB 446 MB
External CompactFlash storage	512 MB max

Agency Certifications

Certifications ⁽¹⁾	Value
c-UL-us	UL Listed Industrial Control Equipment, certified for use in US and Canada. See File E10314. UL Listed Industrial Control Equipment for use in: <ul style="list-style-type: none"> • Class I, Div 2, Group A, B, C, D • Class I, Zone 2, Group IIC ⁽²⁾ • Class II, Div 2 Groups F, G • Class III Hazardous Locations
CE (EMC)	European Union 2004/108/EC Directive, compliant with: EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions
CE (LVD)	European Union 2006/95/EC Low Voltage Directive, compliant with: EN 61131-2; Programmable Controllers
C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions
Marine ⁽¹⁾	Products identified with the suffix M in the catalog number, are certified to the requirements of one or more marine societies.

⁽¹⁾ See the Product Certification link on <http://ab.com> for declarations of conformity, certificates, and other certification details.

⁽²⁾ Applies only to the 1250 high-bright display module.