

MobileView Tethered Operator Terminals and Junction Boxes

Catalog Number 2711T

Summary of Changes

This publication contains new and updated information as indicated in the following table.

Topic	Page
Added three more paragraphs of content to the Overview section.	1
Revised table title to include 'First Generation' to first MobileView 2711T Terminal Options table.	2
Added cat. no. 2711T-F10G1N1 row to First Generation MobileView 2711T Terminal Options table.	2
Added Second Generation MobileView 2711T Terminal Options table.	2
Added IP65 Junction Box Dimensions figure.	2
Added cat. nos. 2711T-B10I1N1, -F10G1N1, and -T10G1N1-TC to all tables in MobileView Terminal Specifications section.	3
Added IP20 Junction Box Specification tables.	4
Added IP65 Junction Box Specifications tables.	5
Revised MobileView Accessories section to distinguish accessories between terminal generations.	6
Revised Standard and Agency Certifications section to include IP65 junction box certifications.	7

The MobileView™ 2711T family of human machine interface (HMI) devices have a rugged design with features that include a 3-position enable switch, touch and function keys, and stop push buttons⁽¹⁾. These features let you access the safety system of a machine and the general interface to its control system.

There are two generations of MobileView 2711T terminals. First generation terminals use a 20-pin connection cable with a silver connector to connect to an IP20 junction box. Second generation terminals use a 22-pin connection cable with a black connector to connect to one of two available IP65 junction boxes. Because of the pin differences, you cannot mix components between generations.

The second generation MobileView terminal, cat. no. 2711T-T10I1N1-TC, is a thin client model without an operating system but is set for PXE boot into a thin client server. This terminal is configured to work with ThinManager® software.

There are two IP65 junction boxes that work with second generation MobileView terminals. One junction box has cord grip connections, and the other junction box has M12 On-Machine™ connections. Both IP65 junction boxes have LED lights and a status indicator bar on their front plate that can signify different operating and error states.

(1) Three of the first generation MobileView terminals are equipped with a red-yellow emergency stop (E-stop) push button, both second generation MobileView terminals are equipped with an illuminated red E-stop push button, and two of the first generation MobileView terminals are equipped with a gray stop button that is not classified as an E-stop button.

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MobileView 2711T Terminal Options

The following tables summarize the options available for MobileView 2711T tethered operator terminals. A comparative summary of features for the MobileView terminals starts on [page 3](#).

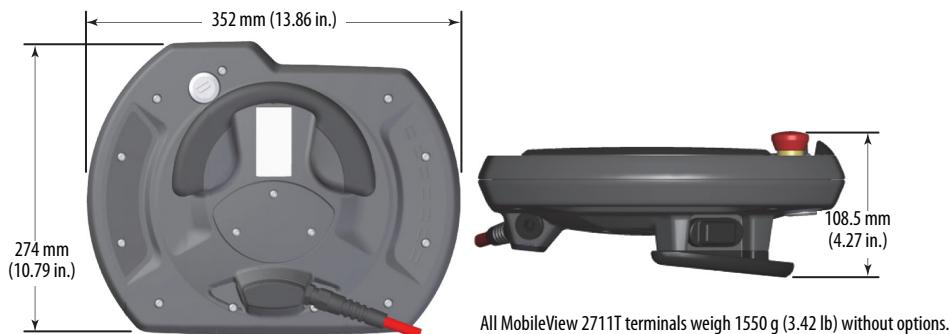
Table 1 - First Generation MobileView 2711T Terminal Options

Cat. No. (2711T)	Display Size (in.)	Touch Screen	Function Keys	3-position Enabling Switch	3-position Key Switch	Momentary Button	2-circuit Push Button	
							E-stop (red/yellow)	Stop (gray)
B10R1K1	10.1	Yes	Yes	Yes	Yes	No	Yes	No
B10R1M1					No	Yes		
F10G1N1					No	No		Yes
T10G1N1			No				Yes	No
T10R1N1								

Table 2 - Second Generation MobileView 2711T Terminal Options

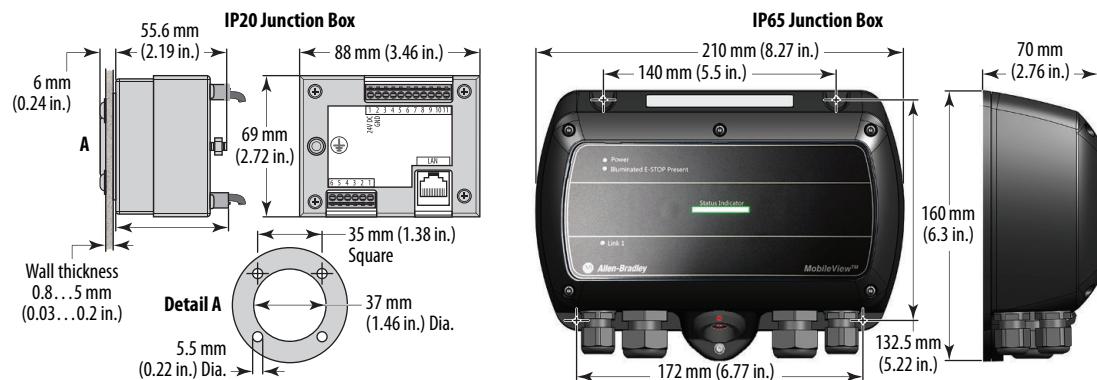
Cat. No. (2711T)	Display Size (in.)	Touch Screen	Function Keys	3-position Enabling Switch	3-position Key Switch	Momentary Button	2-circuit Push Button	
							Illuminated E-stop	Stop (gray)
B10I1N1	10.1	Yes	Yes	Yes	No	No	Yes	No
T10I1N1-TC								

MobileView 2711T Terminal Dimensions and Weight



All MobileView 2711T terminals weigh 1550 g (3.42 lb) without options.

MobileView Junction Box Dimensions and Weight



MobileView Terminal Specifications

Table 3 - General

Attribute	Cat. No. 2711T-						
	T10R1N1	B10I1N1	B10R1K1	B10R1M1	F10G1N1	T10G1N1	T10G1N1-TC
Processor	Intel® Atom™ E3815, 1.46 GHz						
Operating system	Microsoft Windows Embedded Standard 7 SP1, 64 bit						
Memory	4 GB DRAM/32 GB Flash						
Display Size (in.)	10.1						
Color/resolution	WXGA/1280 x 800 pixels						
Resistive touch screen	Analog resistive						
Function keys	No	Yes					No
3-position enable switch	Yes						
2-circuit E-stop	Yes						
USB drive slot	Yes (2.0)						
Communication	10/100 Ethernet						
Dimensions	See page 2						
Weight	1550 g (3.42 lb)						

(1) The operating system and 32 GB flash drive are not included with the 2711T-T10G1N1-TC MobileView terminal.

Table 4 - Electrical

Attribute	Cat. No. 2711T-						
	T10R1N1	B10I1N1	B10R1K1	B10R1M1	F10G1N1	T10G1N1	T10G1N1-TC
Rated supply voltage	24V DC						
Supply voltage tolerance range	19.2...30V DC (EN 61131-2)						
Input current	500 mA at 24V DC						
Peak inrush current	5.6 A (max)						

Table 5 - Environmental

Attribute	Cat. No. 2711T-						
	T10R1N1	B10I1N1	B10R1K1	B10R1M1	F10G1N1	T10G1N1	T10G1N1-TC
Operating temperature	0...45 °C (32...113 °F)						
Storage temperature	-25...+70 °C (-13...+158 °F)						
Relative humidity (noncondensing)	5...95% at 0...45 °C (32...113 °F)						
Vibration (operating)	5...150 Hz 5...8.4 Hz, 3.5 mm p-p 8.4...150 Hz, 1 G peak						
Shock (operating)	15 G (½ Sine, 11 ms) IEC 60068-2-27						
Altitude	0...2,000 m (0...6,562 ft)						

IP20 Junction Box Specifications

Table 6 - General, IP20

Attribute	Cat. No. 2711T-JBIP20DC
USB drive slot	Yes (2.0)
Communication	10/100 Ethernet
Dimensions	See page 2
Weight, approx	220 g (0.49 lb)

Table 7 - Electrical, IP20

Attribute	Cat. No. 2711T-JBIP20DC
Rated supply voltage	24V DC
Supply voltage tolerance range	19.2...30V DC (EN 61131-2)
Input current ⁽¹⁾	500 mA at 24V DC
Peak inrush current	5.6 A (max)
Connector cycle duration ⁽²⁾	5000 (typical)

(1) Without a MobileView terminal connected to the junction box.

(2) Applies to silver 20-pin cable connector. Test the connector monthly to verify that it locks properly. Remove the IP20 junction box from operation after the connection cycles have been exceeded.

Table 8 - Environmental, IP20

Attribute	Cat. No. 2711T-JBIP20DC
Operating temperature	5...45 °C (41...113 °F)
Storage temperature	-25...+70 °C (-13...+158 °F)
Relative humidity (noncondensing)	5...95% at 5...45 °C (41...113 °F)
Vibration (operating)	5...150 Hz 5...8.4 Hz, 3.5 mm p-p 8.4...150 Hz, 1 G peak
Shock (operating)	15 G (½ Sine, 11 msec) IEC 60068-2-27
Altitude	0...2,000 m (0...6,562 ft)

IP65 Junction Box Specifications

Table 9 - General, IP65

Attribute	Cat. No. 2711T-	
	JBIP65DC1	JBIP65DM1
USB drive slot	Yes (2.0)	
Communication	10/100 Ethernet	
Dimensions	See page 2	
Weight, approx	500 g (1.1 lb)	

Table 10 - Electrical, IP65

Attribute	Cat. No. 2711T-	
	JBIP65DC1	JBIP65DM1
Rated supply voltage	24V DC	
Supply voltage tolerance range	19.2...30V DC (EN 61131-2)	
Input current ⁽¹⁾	500 mA at 24V DC	
Peak inrush current	5.6 A (max)	
Connector cycle duration ⁽²⁾	5000 (typical)	
E-stop functions	<ul style="list-style-type: none"> • Voltage, min • Current, min (Ie) • Current carrying capacity, min • Usage category • Reaction time, max⁽³⁾ • Isolation • Bounce time • Proof-test interval⁽⁴⁾ • Switching cycles relay • PFH_d 	
	<ul style="list-style-type: none"> • 5V DC per contact • 10 mA per contact • 1000 mA per contact • DC-13 (IEC 60947-5-1) • 19 ms • 500V AC to rest • <10 ms • 20 years • 10 x 10⁵ • 9.79 x 10⁻¹⁰ (1/h) 	

(1) Without a MobileView terminal connected to the junction box.

(2) Applies to black, 22-pin cable connector. Test the connector monthly to verify that it locks properly. Remove the IP65 junction box from operation after the connection cycles have been exceeded.

(3) Reaction time is time before the E-stop is triggered.

(4) Decommission the safety function once the E-stop has been activated 250,000 times or after 20 years, whichever comes first.

Table 11 - Environmental, IP65

Attribute	Cat. No. 2711T-	
	JBIP65DC1	JBIP65DM1
Operating temperature	5...45 °C (41...113 °F)	
Storage temperature	-25...+70 °C (-13...+158 °F)	
Relative humidity (noncondensing)	5...95% at 5...45 °C (41...113 °F)	
Vibration (operating)	5...150 Hz 5...8.4 Hz, 3.5 mm p-p 8.4...150 Hz, 1 G peak	
Shock (operating)	15 G (1/2 Sine, 11 msec) IEC 60068-2-27	
Altitude	0...3,000 m (0...9,843 ft)	

MobileView Accessories

Table 12 - For First Generation MobileView Terminals (cat. nos. 2711T-B10R1K1, -B10R1M1, -F10G1N1, -T10G1N1, and -T10R1N1)

Cat. No.	Description
2711T-5MCABLE	Connection cable (5 m/16.4 ft) with silver connector to connect a 20-pin MobileView terminal to an IP20 junction box.
2711T-10MCABLE	Connection cable (10 m/32.8 ft) with silver connector to connect a 20-pin MobileView terminal to an IP20 junction box.
2711T-15MCABLE	Connection cable (15 m/49.2 ft) with silver connector to connect a 20-pin MobileView terminal to an IP20 junction box.
2711T-JBIP20DC	A 24V DC powered, IP20 junction box that includes a junction box cap.
2711T-JUMP	A silver, 20-pin bridge connector to bypass emergency stop (E-stop) contactors in an IP20 MobileView junction box. ⁽¹⁾

(1) For applications where the customer plans to move one MobileView terminal between many MobileView junction boxes.

Table 13 - For Second Generation MobileView Terminals (cat. nos. 2711T-B10I1N1 and -T10I1N1-TC)

Cat. No.	Description
2711T-5MCABLE2	Connection cable (5 m/16.4 ft) with black connector to connect a 22-pin MobileView terminal to an IP65 junction box.
2711T-10MCABLE2	Connection cable (10 m/32.8 ft) with black connector to connect a 22-pin MobileView terminal to an IP65 junction box.
2711T-15MCABLE2	Connection cable (15 m/49.2 ft) with black connector to connect a 22-pin MobileView terminal to an IP65 junction box.
2711T-JBIP65DC1 ⁽¹⁾	A 24V DC powered, IP65 junction box with cord grips, and Box ID and E-stop bypass functionality.
2711T-JBIP65DM1 ⁽¹⁾	A 24V DC powered, IP65 junction box with M12 On-Machine connectors, and Box ID and E-stop bypass functionality.
2711T-JBBKCOVER	A back cover accessory plate for the 2711T-JBIP65DC1 and 2711T-JBIP65DM1 junction boxes.
2711T-22JUMP	A black, 22-pin bridge connector to bypass emergency stop (E-stop) contactors in an IP65 MobileView junction box. ⁽²⁾

(1) First generation MobileView terminals 2711T-T10G1N1 and 2711T-F10G1N1 can be used with IP65 junction boxes and 22-pin connection cables.

(2) For applications where the customer plans to move one MobileView terminal between many MobileView junction boxes.

Table 14 - For All MobileView Terminals

Cat. No.	Description
2711T-BRACKET	Mounting bracket for stationary operation or to store the terminal.
2711T-VMBRACKET	VESA Mounting bracket for stationary operation, to store the terminal, or to lock the terminal for security reasons.

Standard and Agency Certifications

For declarations of conformity, certificates, and other certification details, please visit the Rockwell Automation Product Certifications site at: <http://www.rockwellautomation.com/certification/overview.page>

Region	Standards Group	Regulatory Standard
Americas	Safety	<p>c-UL-us</p> <p>MobileView terminals:</p> <ul style="list-style-type: none"> UL 508 - Industrial Control Equipment UL 1740 - Robotic Equipment⁽¹⁾ CSA C22.2 No. 142 - Industrial Control Equipment CSA Z434 - Robotic Equipment <p>IP65 junction boxes:</p> <ul style="list-style-type: none"> UL 508 - Industrial Control Equipment UL 61010-1 - Control Equipment UL 61010-2-201 - Control Equipment UL 1740 - Robotic Equipment IEC 61508 - Functional Safety CSA C22.2 No. 142 - Industrial Control Equipment CSA Z434 - Robotic Equipment
		State of California
Europe	Enclosure rating	IP65 per EN 60529
	Safety	<p>EN 61131-2 - Programmable Controllers</p> <p>MobileView terminals:</p> <ul style="list-style-type: none"> EN ISO 13850 - Safety Function EN 60204-1 - Safety Function <p>IP65 junction boxes:</p> <ul style="list-style-type: none"> EN ISO 13850 - Safety Function EN 60204-1 - Safety Function EN ISO 13849-1 - Safety Function EN ISO 10218-1 - Safety Function EN 61131-2 - Programmable Controllers Suitable for use in applications up to Cat 4, PLe (EN ISO 13849-1) and SIL3/SIL CL3 (EN 61508/EN 62061); for more details, see TÜV Rheinland certificate, publication 2711T-CT006
		EMC
		2014/30/EU
		Emissions
		EN 61131-2
		Immunity
		EN 61131-2
		REACH
		Regulation No. 1907/2006 of the European Parliament
Asia Pacific	Product certification	<p>European RoHS 2011/65/EU</p> <p>Turkey RoHS (EEE Yönetmeliðine Uygundur. In Conformity with the EEE Regulation)</p>
		<p>WEEE</p> <p>Waste Electrical and Electronic Equipment (WEEE) 2012/19/E</p>
	Machinery directive	The product safety functions of the MobileView 2711T series are in conformity with the essential requirements of the Machinery Directive (2006/42/EC) when installed and maintained in accordance with the instructions contained in the product documentation. The standards referenced above regarding the safety function have been applied.
	EU battery directive	2006/66/EC
	<p>China RoHS pollution control logo SJ/T113642006</p> <p>RCM - Australian Radiocommunications Act, compliant with EN61000-6-4</p> <p>Korean Clause 3, Article 58-2 of Radio Waves Act</p> <p>위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.</p>	

(1) Does not apply to 2711T-F10GIN1 and 2711T-T10G1N1 MobileView terminals with gray push buttons.

Additional Resources

These documents contain additional information about related products from Rockwell Automation.

Resource	Description
MobileView Tethered Operator Terminal User Manual, publication 2711T-UM001	Provides information to install, operate, and troubleshoot MobileView 2711T terminals and junction boxes.
MobileView Tethered Operator Terminal Bridge Connector Installation Instructions, publication 2711T-IN001	Provides information to install the MobileView 2711T terminal bridge connector.
FactoryTalk View Machine Edition User's Guide, publication VIEWME-UM004	Provides comprehensive information about FactoryTalk View Machine Edition, procedures to create and run an automation application, and reference information.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines to install a Rockwell Automation® industrial system.
Product Certifications website, http://www.rockwellautomation.com/rockwellautomation/certification/overview.page	Provides declarations of conformity, certificates, and other certification details.

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Local Technical Support Phone Numbers	Locate the phone number for your country.	www.rockwellautomation.com/global/support/get-support-now.page
Direct Dial Codes	Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer.	www.rockwellautomation.com/global/support/direct-dial.page
Literature Library	Installation Instructions, Manuals, Brochures, and Technical Data.	www.rockwellautomation.com/literature
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	www.rockwellautomation.com/global/support/pcdc.page

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