Technical Data

Original Instructions

MobileView 2 Handheld Operator Terminals

Catalog Numbers 2711T-PP0xxxxxxx, 2711T-PT0xxxxxxx, 2711V-IP20JNCTNBOX, 2711V-IP65JNCTNBOXOM, 2711V-IP65JNCTNBOXCG

Topic	Page
Overview	2
Catalog Number Explanation	3
MobileView 2 Terminal Dimensions	5
MobileView 2 Terminal Specifications	5
MobileView Junction Box Dimensions	8
MobileView Junction Box Specifications	8
MobileView Junction Box Accessories	10
Additional Resources	11



Overview

MobileView™ 2 handheld operator terminals have a lightweight, ergonomic design with features that include a 3-position enable switch, touch and function keys, a 10-inch, high-resolution, capacitive touch screen, removable storage, and an illuminated red E-stop push button. These features let accessing the safety system of a machine and the general interface to its control system a high-end user experience. Optional features, such as energy storage, allow for additional diverse application scenarios.

The MobileView 2711T-PP0 family of mobile PCs are equipped with Windows® 10 IoT Enterprise 2021 LTSC, allowing them to function as open system Industrial Computers. These terminals can be configured for use with FactoryTalk® View Machine Edition (ME) Station, FactoryTalk Optix, FactoryTalk® Remote Access™, and other Rockwell Automation software.

The MobileView 2711T-PT0 family of mobile thin clients are configured with ThinManager® Ready firmware to easily connect to Rockwell Automation ThinManager software. A PXE Boot image is also available for free download at the Product Compatibility and Download Center (PCDC), rok.auto/pcdc.

Each MobileView 2 terminal is connected to the control system using a compatible junction box and cable:

- an IP20 junction box (catalog number 2711V-IP20JNCTNBOX) and a 20-pin connection cable with a silver connector
- or one of two IP65 junction boxes and a 22-pin connection cable with a dark gray connector
  - catalog number 2711V-IP65JNCTNBOXCG has cord grip connections
  - catalog number 2711V-IP65JNCTNBOXOM has M12 On-Machine™ connections

  Both IP65 junction boxes have status indicators on the front plate that signify different operating and error states.

Because of the pin differences, you must use the appropriate cable for your terminal and you cannot mix cables and accessories between the IP20 and IP65 connection options.

Catalog Number Explanation

Catalog numbers consist of various characters that identify specific options for MobileView 2 terminals. The following tables identify the options defined in the catalog number for your MobileView 2 terminal.

For a list of standard and semi-custom catalog numbers, see Product Selection. Standard catalog numbers are readily available. Semi-custom catalog numbers require a customer commitment. All catalog numbers outside of the standard and semi-custom catalog number list are considered full-custom solutions and require sizable commitment, development time, and possible NRE cost.

Example:	2711T-PP0	L	A	B	L	N	N	N	/	B
	a	b	c	d	e	f	g	h	/	i

a	
Terminal Type	
Code	**Description**
2711T-PP0	Panel PC
2711T-PT0	Thin Client

b	
Orientation	
Code	**Description**
L	Landscape
P	Portrait

c	
Keypad	
Code	**Description**
N	None (power only)
A	Combo
R	Standard Robotics
P	Standard PC
C	CNC
O	None (power with front control)
B	Combo (with front control)
S	Standard Robotics (with front control)
Q	Standard PC (with front control)
D	CNC (with front control)

d	
Junction Box, Operator Control (top right)	
Code	**Description**
A	IP65 Junction Box Illuminated E-Stop Hot-Pluggable
B	IP20 Junction Box Non-Illuminated E-Stop - red/yellow Hot-Pluggable
C	IP20 Junction Box Non-Illuminated Stop - gray

e	
Operator Control (top left)	
Code	**Description**
N	None
A	Key switch I-0-II, internally wired, 3 positions
B	Key switch I-0-II, externally wired, 3 positions
C	Key switch I-0, internally wired, 2 positions
D	Key switch I-0, externally wired, 2 positions
E	Key switch I-II, externally wired, 2 positions, 4 wires (separate circuits)
F	Key switch I-0-II, internally wired, 3 positions (left momentary)
G	Key switch I-0-II, externally wired, 3 positions (left momentary)
H	Key switch I-0-II, internally wired, 1 position
I	Key switch I-0-II, externally wired, 1 position
J	Illuminated white push button, maintained, externally wired
K	Illuminated white push button, maintained, internally wired
L	Illuminated white push button, momentary, externally wired
M	Illuminated white push button, momentary, internally wired
O	Illuminated green push button, maintained, externally wired
P	Illuminated green push button, maintained, internally wired
Q	Illuminated green push button, momentary, externally wired
R	Illuminated green push button, momentary, internally wired

f	
Operator Control (bottom right), Special Keypad	
Code	**Description**
N	None
A	Key switch I-0-II, internally wired, 3 positions
C	Key switch I-0, internally wired, 2 positions
F	Key switch I-0-II, internally wired, 3 positions (left momentary)
H	Key switch I-0-II, internally wired, 1 position
K	Illuminated white push button, maintained, internally wired
M	Illuminated white push button, momentary, internally wired
P	Illuminated green push button, maintained, internally wired
R	Illuminated green push button, momentary, internally wired
S	Rotary switch, 16 positions, internally wired, with bedstop
T	Handwheel 50 increments, no push button, internally wired
U	Joystick digital, 2 axis, internally wired
V	Rotary switch, 16 positions, internally wired, without bedstop
W	Rotary switch, 16 positions, externally wired, with bedstop
X	Rotary switch, 16 positions, externally wired, without bedstop

g	
Optix License	
Code	**Description**
N	None

h	
Options	
Code	**Description**
N	None

i
Series
Code
B...Z

Product Selection

These tables compare the 2711T-PP0 mobile PC and 2711T-PT0 thin client options.

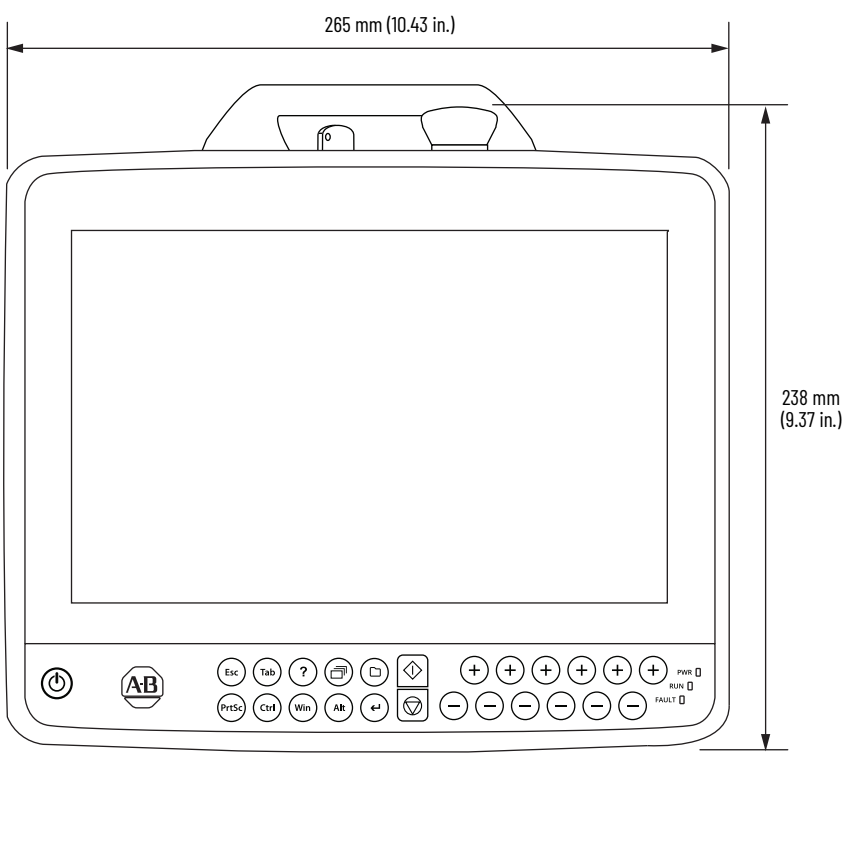
2711T-PP0 Mobile PC Options

Cat. No. (2711T-PP0)	Orientation	Junction Box	Operator Control (top right)	Operator Control (top left)	Keypad	Energy Storage
Standard Catalog Numbers - Readily Available						
LAANNNN	Landscape	IP65	Illuminated E-stop	–	Combo	No
LNANNNN		IP65	Illuminated E-stop	–	None	No
LABLNNN		IP20	Red/Yellow E-stop	–	Combo	No
LABNNNN		IP20	Red/Yellow E-stop	Externally Wired, White, Illuminated, Momentary Button	Combo	No
LNBNNNN		IP20	Red/Yellow E-stop	–	None	No
LRAANNN		IP65	Illuminated E-stop	Internally Wired, 3-position Key Switch	Robotics	No
LRBBNNN		IP20	Red/Yellow E-stop	Externally Wired, 3-position Key Switch	Robotics	No
Semi-custom Catalog Numbers - Commitment Required to Activate						
LAANNNE	Landscape	IP65	Illuminated E-stop	–	Combo	Yes
LPANNNN		IP65	Illuminated E-stop	–	Standard PC	No
LPAANNE		IP65	Illuminated E-stop	Internally Wired, 3-position Key Switch	Standard PC	Yes
LRANNNN		IP65	Illuminated E-stop	–	Robotics	No
LABLNNE		IP20	Red/Yellow E-stop	Externally Wired, White, Illuminated, Momentary Button	Combo	Yes
LABNNNE		IP20	Red/Yellow E-stop	–	Combo	Yes
LNBNNNE		IP20	Red/Yellow E-stop	–	None	Yes
LPBANNN		IP20	Red/Yellow E-stop	Internally Wired, 3-position Key Switch	Standard PC	No
LPBBNNN		IP20	Red/Yellow E-stop	Externally Wired, 3-position Key Switch	Standard PC	No
LPBNNNN		IP20	Red/Yellow E-stop	–	Standard PC	No
LACNNNN		IP20	Gray stop	–	Combo	No
LNCNNNN		IP20	Gray stop	–	None	No
PRAANNN	Portrait	IP65	Illuminated E-stop	Internally Wired, 3-position Key Switch	Robotics	No
PRBBNNN		IP20	Red/Yellow E-stop	Externally Wired, 3-position Key Switch	Robotics	No

Table 1 - 2711T-PT0 Thin Client Options

Cat. No. (2711T-PT0)	Orientation	Junction Box	Operator Control (top right)	Operator Control (top left)	Keypad	Energy Storage
Standard Catalog Numbers - Readily Available						
LNANNNN	Landscape	IP65	Illuminated E-stop	–	None	No
LNBNNNN		IP20	Red/Yellow E-stop	–	None	No
Semi-custom Catalog Numbers - Commitment Required to Activate						
LAANNNN	Landscape	IP65	Illuminated E-stop	–	Combo	No
LPANNNN		IP65	Illuminated E-stop	–	Standard PC	No
LRANNNN		IP65	Illuminated E-stop	–	Robotics	No

MobileView 2 Terminal Dimensions



MobileView 2 Terminal Specifications

Features - MobileView 2 Terminals

Attribute	2711T-PP0	2711T-PT0
Processor	Intel Atom 6211 Dual Core 1.3 GHz	
Operating system	Windows 10 IoT Enterprise 2021 LTSC	
Memory	64GB SSD, 8GB RAM	
Display Size (in.) Color/resolution Touch screen	 10.1 WXGA/1280 x 800 pixels Projective capacitive	
Keypad	Membrane with tactile feedback; keys, status LEDs, and 1 power LED	
3-position enable switch	Yes	
2-circuit E-stop	Yes	
USB port	Yes (2.0), maximum cable length of 100 m (328 ft)	
Micro SD interface	Yes	
Communication	10/100 Ethernet	
Weight	1,200 g (2.47 lb)	

Technical Specifications - MobileView 2 Terminals

Attribute	2711T-PP0, 2711T-PT0
Rated supply voltage	24V DC
Supply voltage tolerance range	19.2...30V DC SELV/PELV (EN61131-2)
Input current	500 mA at 24V DC
Power consumption	20W max (700mA at 24V DC)
Peak inrush current	5.6 A max
Construction	Housing made of PPE/PS
Flame retardance	UL94-V0
Safe drop height (2 cases according to EN 61131-2)	1 m on industrial floor, then at least protection class IP54
Emergency stop button/switch	
Output type	Electromechanical switching contact
Nominal voltage (Ue)	24 V DC
Minimum current (Ie)	10 mA (per contact)
Current carrying capacity	Max. 1000 mA (per contact)
Usage category	DC-13 (in accordance with IEC 60947-5-1)
B_{10D}	250,000
Design	2-circuit, external wiring
Isolation	500 V AC (1 min) to the rest
Enabling switch	
Output type	Electromechanical switching contact
Switchable nominal voltage (Ue)	24 V DC
Rated current (Ie)	500 mA (per contact)
Short circuit and overload protection	No
B_{10D} (switch position 1-2-3-1)	1,000,000
Actuation forces • From switch position 1 to 2 • From switch position 2 to 3	 3 N typical 17 N typical
Isolation	500 V AC (1 min) to the rest

Environmental Specifications - MobileView 2 Terminals

Attribute	2711T-PP0, 2711T-PT0
Operating temperature	0...45 °C (32...113 °F)
Storage temperature	-25...+70 °C (-13...+158 °F)
Relative humidity	5...95%, noncondensing
Vibration	1 G sinusoidal, IEC 60068-2-6
Shock	15 G, 11 ms, IEC 60068-2-27
EMC	EN 61131-2
Altitude	0...2,000 m (0...6,562 ft)

Certifications - MobileView 2 Terminals

Certification[1]	2711T-PP0, 2711T-PT0
c-UL-us	c-UL-us Listed Industrial Control Equipment for US and Canada per standards: • UL 61010-1 - Control Equipment • UL 61010-2-201 - Control Equipment • CSA-C22.2 No. 61010-1 - Control Equipment • CSA-C22.2 No. 61010-2-201 - Control Equipment • CSA-C22.2 No. 61010-1-12 - Industrial Control Equipment c-UL-us Recognized Robots and Robotic Equipment for US and Canada per standards: • UL 1740 - Standard for Robots and Robotic Equipment[2] • CAN/CSA Z434-14 Industrial Robots and Robotic Systems - General Safety Requirements
CE	2006/42/EC Machine Directive (MD), compliant with: • EN 60204-1; Electrical equipment of machines • EN ISO 10218-1: Robotics - Safety requirements - Part 1: Industrial robots • EN ISO 13850: Safety of machinery - Emergency stop function - Principles for design 2023/1542/EU Battery Regulation 2014/30/EU EMC Directive (EMC) compliant with: • EN 61131-2; Programmable Controllers 2011/65/EU RoHS Directive incorporating 2015/863 (RoHS) • EN IEC 63000 2012/19/EU WEEE directive REACH Regulation No. 1907/2006 of the European Parliament
RCM	Australian Radiocommunications Act, compliant with EN 61000-6-4; Industrial Emissions
RoHS	China RoHS European RoHS Türkiye RoHS (EEE Yönetmeliðine Uygundur. In Conformity with the EEE Regulation)
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with Article 58-2 of Radio Waves Act, Clause 3
UKCA	-2016 No. 1091 Electromagnetic Compatibility Regulations (EMC) -2008 No. 1597 Supply of Machinery (Safety) Regulations (MD) -2012 No. 3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS)
Morocco	Moroccan EMC Directive, compliance with: NM EN 61131-2; Programmable Controllers

(1) See the Product Certification website at rok.auto/certifications for Declarations of Conformity, Certificates, and other certification details.
(2) UL1740 does not apply to terminals that come equipped with a gray push button (no E-STOP).

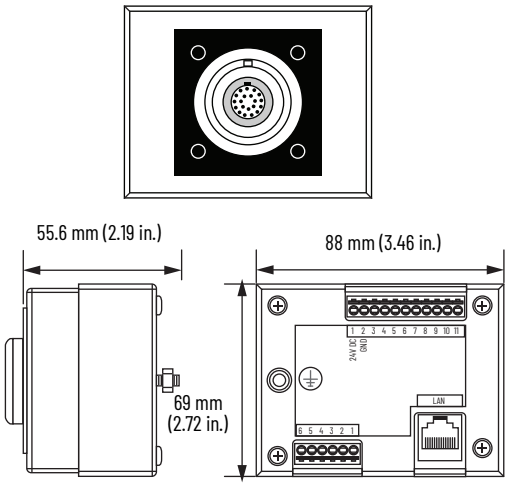
MobileView 2 Terminal Accessories

MobileView 2 Terminal (Cat. No. 2711T-PP0, 2711T-PT0) Accessories

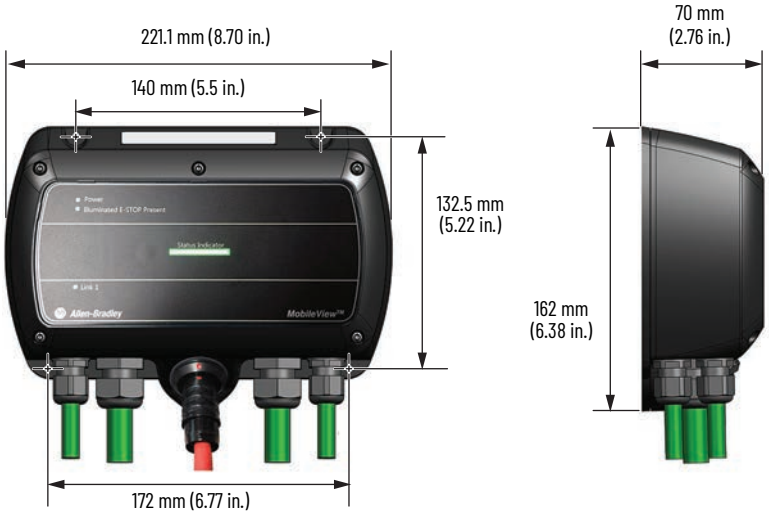
Cat. No.	Description
2711V-BRKT	Mounting bracket for stationary operation or to store the terminal.
2711V-BRKTCBL	Mounting bracket for stationary operation or to store the terminal, with cable holder.
2711V-LBUMPER	Protective case for landscape format terminals
2711V-PBUMPER	Protective case for portrait format terminals
2711V-PRTCTOVL	Protective overlay for the terminal capacitive touch screen
2711V-HNDLSTRAP	Replacement terminal handle and hand strap

MobileView Junction Box Dimensions

IP20 Junction Box



IP65 Junction Box



MobileView Junction Box Specifications

Features - MobileView Junction Boxes

Attribute	2711V-IP20JNCTNB0X	2711V-IP65JNCTNB0XCG	2711V-IP65JNCTNB0X0M
Communication	10/100 Ethernet		
Weight, approx	220 g (0.49 lb)	500 g (1.1 lb)	
Wiring	Customer-wired, push-pull	Customer-wired with cord grips	Factory-wired with M12 On-Machine™ connectors
Features	Junction box cap	Box ID and E-stop	
Mounting	Control cabinet	Machine, wall, control cabinet	

Technical Specifications - MobileView Junction Boxes

Attribute	2711V-IP20JNCTNB0X	2711V-IP65JNCTNB0X0M 2711V-IP65JNCTNB0XCG
Rated supply voltage	24V DC	
Supply voltage tolerance range	19.2...30V DC SELV/PELV (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) Test the connector monthly to verify that it locks properly. Remove the IP20 junction box from operation after the connection cycles have been exceeded.

Environmental Specifications - MobileView Junction Boxes

Attribute	2711V-IP20JNCTNB0X	2711V-IP65JNCTNB0X0M, 2711V-IP65JNCTNB0XCG
Operating temperature	0...55 °C (32...113 °F)	0...50 °C (32...122 °F)
Storage temperature	-25...+70 °C (-13...+158 °F)	
Relative humidity	5...95% noncondensing	
Vibration	2 G, IEC 60068-2-6	
Shock	15 G, 11 ms, IEC 60068-2-27	
Emissions	IEC 61000-6-4	
EMC	EN 61131-2	
Altitude	0...2,000 m (0...6,562 ft)	0...3,000 m (0...9,843 ft)

Certifications - MobileView Junction Boxes

Certification[1]	2711V-IP20JNCTNBOX	2711V-IP65JNCTNBOXOM, 2711V-IP65JNCTNBOXCG
c-UL-us	c-UL-us Listed Industrial Control Equipment for US and Canada per standards: • UL 508 - Industrial Control Equipment • CSA-C22.2 No. 142 - Industrial Control Equipment	c-UL-us Listed Industrial Control Equipment for US and Canada per standards: • UL 61010-1 - Control Equipment • UL 61010-2-201 - Control Equipment • CSA-C22.2 No. 61010-1 - Control Equipment • CSA-C22.2 No. 61010-2-201 - Control Equipment • CSA-C22.2 No. 61010-1-12 - Industrial Control Equipment c-UL-us Recognized Robots and Robotic Equipment for US and Canada per standards: • UL 1740 - Robotic Equipment[2] • CSA Z434-14 - Industrial robots and robot systems - General safety • CAN/CSA C22.2 No. 73 - Construction and Test of Electrically Operated Machine Tools Marked UL Certified for SAFETY FS US-CA (with file numbers) EN ISO 13849-1 UP TO PL e (Cat 4) Safety of machinery - Safety-related parts of control systems - General principles for design EN 62061 / EN61508 - Functional Safety: UP TO SIL3
CE	2011/65/EU RoHS Directive incorporating 2015/863 (RoHS) • EN IEC 63000 REACH Regulation No. 1907/2006 of the European Parliament	2006/42/EC Machine Directive (MD), compliant with: • EN 60204-1; Electrical equipment of machines • EN ISO 13849-1: Safety of machinery - Control Systems - Principles for design • EN ISO 13850: Safety of machinery - Emergency stop function - Principles for design (2) • EN ISO 10218-1: Robotics - Safety requirements - Part 1: Industrial robots • EN IEC 62061 / EN 61508 Part 1-7 - Functional Safety 2014/30/EU EMC Directive (EMC) compliant with: • EN 61131-2; Programmable Controllers 2011/65/EU RoHS Directive incorporating 2015/863 (RoHS) • EN IEC 63000 REACH Regulation No. 1907/2006 of the European Parliament
KC	—	Registered under Clause 3, Article 58-2 of Radio Waves Act
RCM	—	Australian Radiocommunications Act, compliant with EN 61000-6-4; Industrial Emissions Australian Radio Communications Act, compliant with EN 61326-1: Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements.
RoHS	—	China RoHS European RoHS Türkiye RoHS (EEE Yönetmeliðine Uygundur. In Conformity with the EEE Regulation)
UKCA	2012 No. 3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS)	2016 No. 1091 Electromagnetic Compatibility Regulations (EMC) 2008 No. 1597 Supply of Machinery (Safety) Regulations (MD) 2012 No. 3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS)
Morocco	—	NM EN 61131-2; Programmable Controllers

(1) See the Product Certification website at rok.auto/certifications for Declarations of Conformity, Certificates, and other certification details.

MobileView Junction Box Accessories

IP20 Junction Box (Cat. No. 2711V-IP20JNCTNBOX) Accessories

Cat. No.	Description
2711V-IP20CBL5M	Connection cable (5 m/16.4 ft) with silver connector to connect a 20-pin MobileView terminal to an IP20 junction box
2711V-IP20CBL10M	Connection cable (10 m/32.8 ft) with silver connector to connect a 20-pin MobileView terminal to an IP20 junction box
2711V-IP20CBL15M	Connection cable (15 m/49.2 ft) with silver connector to connect a 20-pin MobileView terminal to an IP20 junction box
2711V-IP20BRDGCONN	A silver, 20-pin bridge connector to bypass emergency stop (E-stop) contactors in an IP20 junction box(1)

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

IP65 Junction Box (Cat. No. 2711V-IP65JNCTNBOXCG and 2711V-IP65JNCTNBOX0M) Accessories

Cat. No.	Description
2711V-IP65CBL5M	Connection cable (5 m/16.4 ft) with black connector to connect a 22-pin MobileView terminal to an IP65 junction box
2711V-IP65CBL10M	Connection cable (10 m/32.8 ft) with black connector to connect a 22-pin MobileView terminal to an IP65 junction box
2711V-IP65CBL15M	Connection cable (15 m/49.2 ft) with black connector to connect a 22-pin MobileView terminal to an IP65 junction box
2711T-IP65BKCVR	A back cover accessory plate
2711V-IP65BRDGCONN	A black, 22-pin bridge connector to bypass emergency stop (E-stop) contactors in an IP65 junction box(1)

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

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Resource	Description
MobileView 2 Handheld Operator Terminals User Manual, publication 2711T-UM200	Provides detailed information on how to install, configure, and operate MobileView 2 terminals, junction boxes, and accessories.
MobileView 2 Handheld Operator Terminals Product Information, publication 2711T-PC003A-EN-P	Provides product dimensions and an accessory list for MobileView 2 terminals.
MobileView IP20 Junction Box Product Information, publication 2711V-PC001A-EN-P	Provides product dimensions, an accessory list, and a cutout template for a MobileView IP20 junction box.
MobileView IP65 Junction Boxes and Accessories Product Information, publication 2711V-PC002A-EN-P	Provides product dimensions, an accessory list, and a mounting template for a MobileView IP65 junction box.
Product Selection and Configuration tools, rok.auto/systemtools	Helps configure complete, valid catalog numbers and build complete quotes based on detailed product information.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.
Technical Documentation Center, rok.auto/techdocs	Quickly access and download technical specifications, installation instructions, and user manuals.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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