Quick Start Guide
GFK-2893P
Sep 2019

Operator Interface Products

IC755CxS06RDx (6" Display)
IC755CxW07CDx (7" Display)
IC755CxS10CDx (10" Display)
IC755CxS12CDx (12" Display)
IC755CxS15CDx (15" Display)

EMERSON

Caution & Warnings Notes as Used in this Publication

 **Warning**	**Warning notices are used in this publication to emphasize that hazardous voltages, currents, temperatures, or other conditions that could cause personal injury to exist in this equipment or may be associated with its use.** **In situations where inattention could cause either personal injury or damage to equipment, a Warning notice is used.**
 **Caution**	**Caution Notices are used where equipment might be damaged if care in not taken.**

Notes: Notes merely call attention to information that is especially significant to understanding and operating the equipment.

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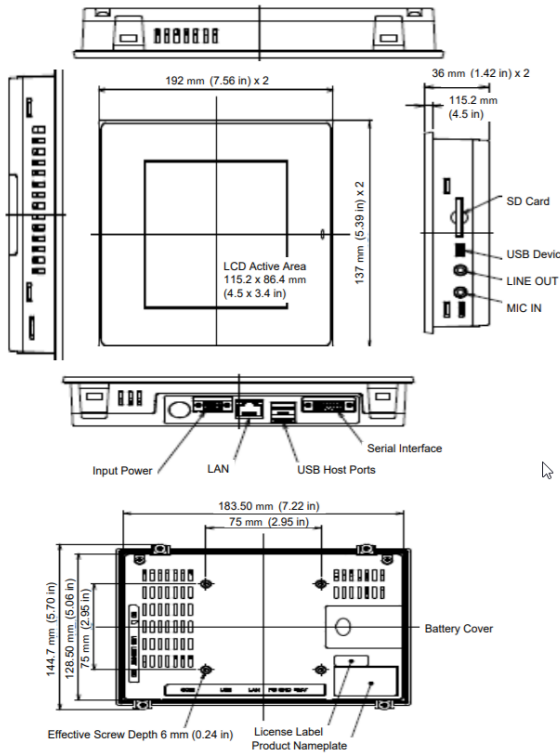
1. Physical Characteristics

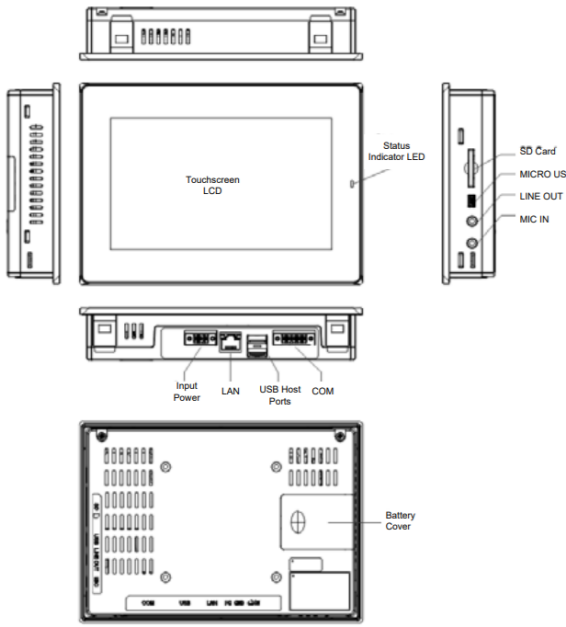
The following diagrams illustrate the physical layout of the Quick Panel+ Operator Interface, including locations of status LEDs, communications ports, and connectors.

Figure 1.1: IC755CxS06RDx Profile and Hardware Features



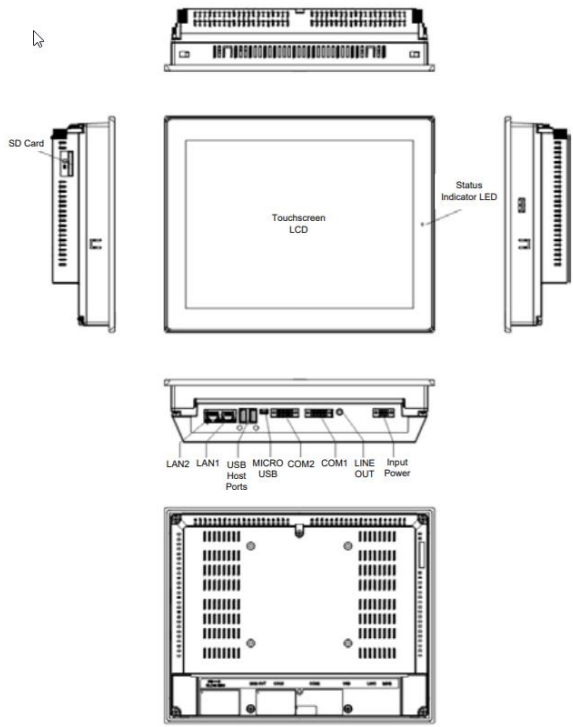
Note: *Refer to the table IC755CxW06CDx Specifications for drawing dimensions.*

Figure 1.2: IC755CxW07CDx Profile and Hardware Features



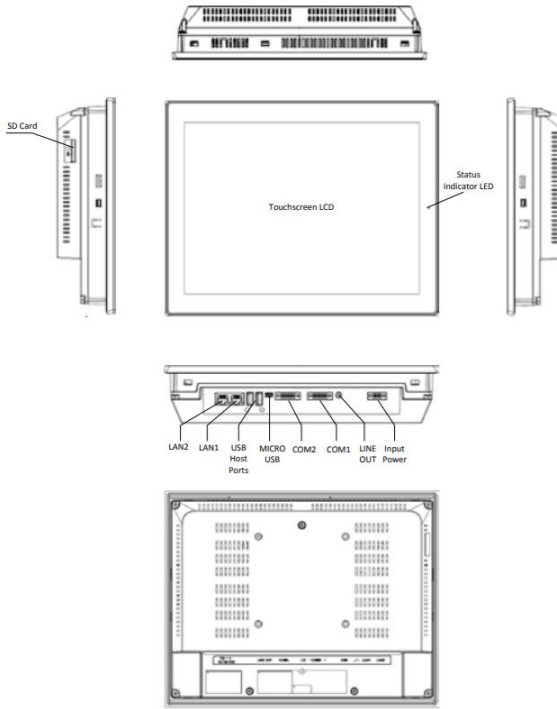
Note: *Refer to the table IC755CxW07CDx Specifications for drawing dimensions.*

Figure 1.3: IC755CxS10CDx Profile and Hardware Features



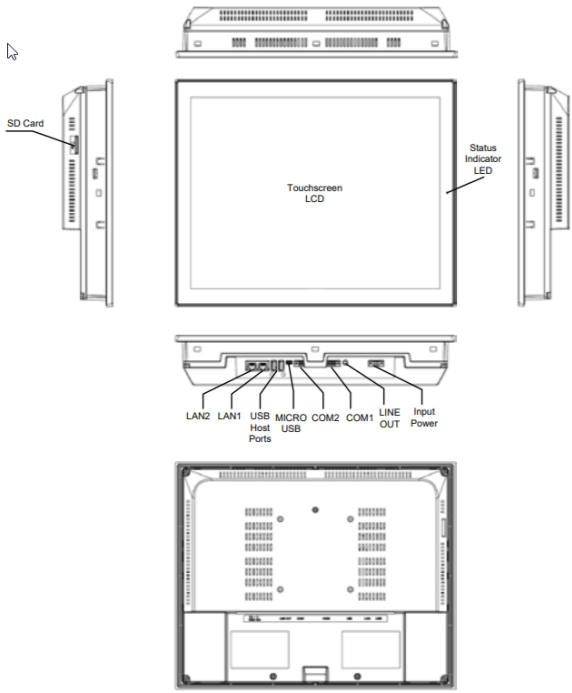
Note: *Refer to the table IC755CxS10CDx Specifications for drawing dimensions.*

Figure 1.4: IC755CxS12CDx Profile and Hardware Features



Note: *Refer to the table IC755CxS12CDx Specifications for drawing dimensions.*

Figure 1.5: IC755CxS15CDx Profile and Hardware Features



Note: *Refer to the table IC755CxS15CDx Specifications for drawing dimensions.*

2. Specifications

2.1 Physical Specifications and Mounting Options

IC755CxS06RDx Specifications

Item		Specification
Processor		Freescale i.MX535 (1 GHz ARM Cortex A8)
Memory	RAM	DDR3 SDRAM 512 MB
	ROM	NAND FLASH 256 MB (IC755CxS06RDx-Ax) NAND FLASH 512 MB (IC755CxS06RDx-Bx, -Cx)
	SRAM	512 KB (with battery backup)
Operating System		Microsoft Windows Embedded Compact 7
Display	Type	5.7" TFT LCD
	Resolution	320(W) x 240(H) pixels QVGA
	Color	65,536
	Brightness	375 cd/m^2
	Backlight	LED
Touchscreen	Touch Panel Type	Analog Resistive
	Multi-touch	Single-touch
Communications	Ethernet Port	1x10 Base-T / 100 Base-TX
	Serial Port	1x RS-232C (COM1) (5-pin connector)
	USB, Host	2x USB 2.0 (Type-A) Maximum power (5 V at 0.5 A)
	USB, Device	1x USB 2.0 (mini Type-B)
Storage		1x SD/SDHC card slot
Audio		1x Mic In (Mono) (3.5 mm jack), 1x Line Out (Stereo) (3.5 mm jack)
Noise Immunity	Noise Voltage	1500 V p-p
	Pulse Duration	1µs
	Rise Time	1 ns
Input power	Rated Voltage	24 V dc ±20% (3-pin connector)
	Power Consumption	15 W maximum
	Frame Ground (FG)	Frame GND connected internally to Signal GND
Dimensions (L×W×D)		192 × 137 × 36 mm (7.56 × 5.39 × 1.42 in)
Weight		0.7 Kg (1.54 lb)
Mounting Options	Panel Cutout Dimensions	183.50 × 128.50 mm (7.22 × 5.06 in)
	VESA Mount	75 x 75 mm (2.95 x 2.95 in)

IC755CxW07CDx Specifications

Item		Specification
Processor		Freescale i.MX535 (1 GHz ARM Cortex A8)
Memory	RAM	DDR2 SDRAM 512 MB (IC755CxW07CDx-Ax, -Bx, -Cx) DDR3 SDRAM 512 MB (IC755CxW07CDx-Dx, -Ex)
	ROM	SLC NAND 256 MB (IC755CxW07CDx-Ax, -Bx, -Cx) SLC NAND 512 MB (IC755CxW07CDx-Dx, -Ex)
	SRAM	512 KB (with battery backup)
Operating System		Microsoft Windows Embedded Compact 7
Display	Type	7" Widescreen TFT LCD
	Resolution	800(W) x 480(H) pixels WVGA
	Color	65,536
	Brightness	310 cd/m^2
	Backlight	LED
Touchscreen	Touch Panel Type	Projected Capacitive
	Multi-touch	Two-point
Communications	Ethernet Port	1x 10/100Base-T (RJ-45)
	Serial Port	1x RS-232 UART port (5-pin connector)
	USB, Host	2x USB 2.0 (Type-A) Maximum power (5 V at 0.5 A)
	USB, Device	1x USB 2.0 (mini Type-B)
Storage		1x SD/SDHC card slot
Audio		1x Mic In (Mono) (3.5 mm jack), 1x Line Out (Stereo) (3.5 mm jack)
Noise Immunity	Noise Voltage	1500 V p-p
	Pulse Duration	1µs
	Rise Time	1 ns
Input power	Rated Voltage	24 V dc ±20% (3-pin connector)
	Power Consumption	15 W maximum, 0.625 A
	Frame Ground (FG)	Frame GND connected internally to Signal GND
Dimensions (L×W×D)		192 × 137 × 36 mm (7.56 × 5.39 × 1.42 in)
Weight		0.80 Kg (1.76 lb)
Mounting Options	Panel Cutout Dimensions	183.50 × 128.50 mm (7.22 × 5.06 in)
	VESA Mount	75 x 75 mm (2.95 x 2.95 in)

IC755CxS10CDx Specifications

Item		Specification
Processor		Freescale i.MX535 (1 GHz ARM Cortex A8)
Memory	RAM	DDR3 SDRAM 1 GB
	ROM	SLC NAND 512 MB
	SRAM	512 KB (with battery backup)
Operating System		Microsoft Windows Embedded Compact 7
Display	Type	10.4" Standard TFT LCD
	Resolution	800(W) x 600(H) pixels SVGA
	Color	65,536
	Brightness	400 cd/m^2
	Backlight	LED
Touchscreen	Touch Panel Type	Projected Capacitive
	Multi-touch	Two-point
Communications	Ethernet Port	2x 10/100Base-T (RJ-45)
	Serial Port	1x RS-232 UART port 1x RS-232/485 port (2x 5-pin connector)
	USB, Host	2x USB 2.0 (Type-A) Maximum power (5 V at 0.5 A)
	USB, Device	1x USB 2.0 (mini Type-B)
Storage		1x SD/SDHC card slot
Audio		1x Line Out (Stereo) (3.5 mm jack)
Noise Immunity	Noise Voltage	1500 V p-p
	Pulse Duration	1 µs
	Rise Time	1 ns
Input power	Rated Voltage	12/24 V dc ±20% (3-pin connector)
	Power Consumption	18 W maximum, 1.5 / 0.75 A
	Frame Ground (FG)	Frame GND connected internally to Signal GND
Dimensions (L×W×D)		278 × 222 × 65 mm (10.95 × 8.74 × 2.56 in)
Weight		2.40 kg (5.29 lbs)
Mounting Options	Panel Cutout Dimensions	266 × 210 mm (10.47 × 8.27 in)
	VESA Mount	100 x 100 mm (3.94 x 3.94 in)

IC755CxS12CDx Specifications

Item		Specification
Processor		Freescale i.MX535 (1 GHz ARM Cortex A8)
Memory	RAM	DDR3 SDRAM 1 GB
	ROM	SLC NAND 512 MB
	SRAM	512 KB (with battery backup)
Operating System		Microsoft Windows Embedded Compact 7
Display	Type	12.1" Standard TFT LCD
	Resolution	800(W) x 600(H) pixels SVGA
	Color	65,536
	Brightness	450 cd/m^2
	Backlight	LED
Touchscreen	Touch Panel Type	Projected Capacitive
	Multi-touch	Two-point
Communications	Ethernet Port	2x 10/100Base-T (RJ-45) 1x 10/100Base-T (RJ-45) for IC755CxS12CDA
	Serial Port	1x RS-232 UART port 1x RS-232/485 port (2x 5-pin connector) (1x 10-pin connector for IC755CxS12CDA)
	USB, Host	2x USB 2.0 (Type-A Maximum power (5 V at 0.5 A)
	USB, Device	1x USB 2.0 (mini Type-B)
Storage		1x SD/SDHC card slot
Audio		1x Line Out (Stereo) (3.5 mm jack)
Noise Immunity	Noise Voltage	1500 V p-p
	Pulse Duration	1 µs
	Rise Time	1 ns
Input power	Rated Voltage	12/24 V dc ±20% (3-pin connector)
	Power Consumption	30 W maximum, 2.5 / 1.25 A
	Frame Ground (FG)	Frame GND connected internally to Signal GND
Dimensions (L×W×D)		314 × 248 × 65 mm (12.36 × 9.76 × 2.56 in)
Weight		3 kg (6.61 lbs)
Mounting Options	Panel Cutout Dimensions	302 × 228 mm (11.89 × 8.98 in)
	VESA Mount	100 x 100 mm (3.94 x 3.94 in)

IC755CxS15CDx Specifications

Item		Specification
Processor		Freescale i.MX535 (1 GHz ARM Cortex A8)
Memory	RAM	DDR3 SDRAM 1 GB
	ROM	SLC NAND 512 MB
	SRAM	512 KB (with battery backup)
Operating System		Microsoft Windows Embedded Compact 7
Display	Type	15" Standard TFT LCD
	Resolution	1024(W) x 768(H) pixels XGA
	Color	65,536
	Brightness	310 cd/m^2
	Backlight	LED
Touchscreen	Touch Panel Type	Projected Capacitive
	Multi-touch	Two-point
Communications	Ethernet Port	2x 10/100Base-T (RJ-45)
	Serial Port	1x RS-232 UART port 1x RS-232/485 port (2x 5-pin connector)
	USB, Host	2x USB 2.0 (Type-A Maximum power (5 V at 0.5 A)
	USB, Device	1x USB 2.0 (mini Type-B)
Storage		1x SD/SDHC card slot
Audio		1x Line Out (Stereo) (3.5 mm jack)
Noise Immunity	Noise Voltage	1500 V p-p
	Pulse Duration	1 µs
	Rise Time	1 ns
Input power	Rated Voltage	12/24 V dc ±20% (3-pin connector)
	Power Consumption	30 W maximum, 2.5 / 1.25 A
	Frame Ground (FG)	Frame GND connected internally to Signal GND
Dimensions (L×W×D)		399 × 323 × 70 mm (15.71 × 12.72 × 2.76 in)
Weight		4.46 kg (9.83 lbs)
Mounting Options	Panel Cutout Dimensions	379 × 305 mm (14.92 × 12.01 in)
	VESA Mount	100 x 100 mm (3.94 x 3.94 in)

2.2 Environmental Specifications

Note: *Install the Quick Panel+ in a well-ventilated location that is not exposed to dust, corrosive gases or liquids, rain, strong ultra-violet light or direct sunlight, and meets the following specifications.*

Item	Specification (All Display Units)
Cooling	Natural convection
Ambient Operating Temperature	0 to +55°C (32 to 131 °F)
Ambient Storage Temperature	-10 to +60°C (14 to 140 °F)
Ambient Humidity (Operating/Storage)	85% RH Non-condensing, wet-bulb temperature: 30°C (86 °F) or less
Environment	Pollution Degree 2, Indoor use only
Vibration Resistance	5 to 9 Hz single-amplitude 3.5 mm 9 to 150 Hz constant-accelerated velocity 9.8 m/s^2 ; X, Y, Z directions 10 time (100 minutes) (Compliance IEC61181-2, JIS B 3502)
Altitude	800~1114 hPa, altitude up to 2000 m (6561.68 ft)
RoHS	Compliant with EU RoHS Directive 2011/65/EU
Enclosure Rating	UL Type 4X; IP65 in panel mount only

Note: *For additional product standards and agency approvals, refer the section Product Certifications and Installation Guidelines.*

3. Initial Startup

Note: *For installation requirements, complete installation procedures, and operating information, refer to the QuickPanel+ Operator Interface User Manual (GFK-2847).*

You will need the following:

- A Safety Extra Low Voltage (SELV) and Limited Energy Circuit or SELV and Class 2 dc power supply.
- The power terminal block is supplied with the product. For voltage and requirements, refer to the *Input Power* specifications in the table, *General Specifications*.
- The mating power terminal block supports stranded 30 to 14 AWG (0.05 to 2.00 mm^2) wires. The user calculates proper gauge wiring for current carrying capacity and loss according to local regulations.
- At a minimum, the cable must be rated for 75°C (167 °F) or more.

⚠ WARNING

ELECTRICAL SHOCK HAZARD - *To* avoid personal injury or damage to equipment, ensure that the dc supply is disconnected from power and the leads are not energized before attaching them to the unit's power supply plug.

3.1 Quick Panel+ Battery Installation

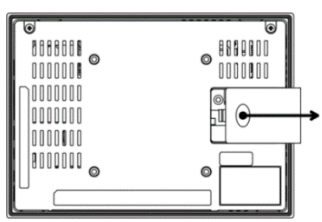
⚠ CAUTION

- Installing the battery should only be performed by trained personnel and in a non-hazardous location.
- If the QuickPanel+ is VESA mounted, detach from the VESA arm when replacing the battery. Refer to the section, *Mounting on a VESA arm*.
- The battery should only be installed when the unit is powered off.
- Care should be taken to protect and insert the battery with correct polarity.
- Do not use any metallic item to remove the battery (such as screwdrivers, knives, pliers, and so forth).
- Be careful to not drop the battery or any associated screws into the unit.
- Be careful of edges on internal sides of the enclosure and frame.

➢ To install the battery

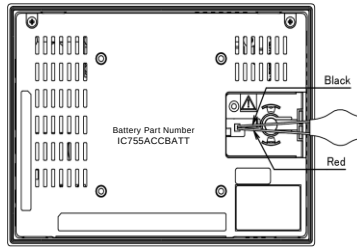
1. Remove the battery cover by pressing down while sliding outward.

Figure 3.1: IC755CxS06RDx/ IC755CxW07CDx Battery Cover Removal



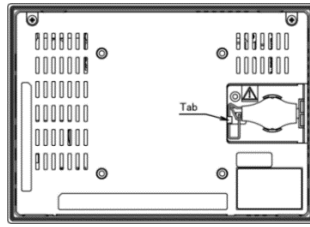
2. Connect the battery harness connector to the header, noting keyed orientation.

Figure 3.2: IC755CxS06RDx /IC755CxW07CDx Battery Harness Connection



3. Verify that positive (red) is down and negative (black) is up.
4. Wrap the harness connector around to match the following figure. Do not let the harness connector go above the tab.

Figure 3.3: Harness Connector Orientation



5. Slide the battery cover into place, taking care not to pinch the harness connector.

3.2 Battery Replacement

⚠ WARNING

- Batteries may present a risk of fire, explosion, or chemical burn if mistreated. Do not crush, disassemble, short-circuit, or dispose of in fire.
- Use of batteries not specified for use with the Quick Panel+ product may present a risk of fire or explosion.

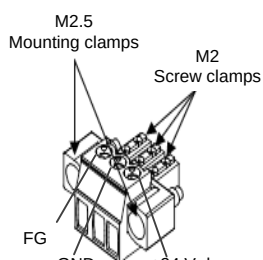
⚠ Caution

- Replace the battery for the IC755CxS06RDx only with Emerson battery part number IC755ACCBATT.
- Replace the battery for the IC755CxW07CDx only with Emerson battery part number IC755ACCBATT.
- Replace the battery for the IC755CxSxxCDx only with Emerson battery part number IC755ACCBATTNL.

3.3 Connecting Input Power

➢ To connect input power

1. Verify that the power cable is not energized.
2. Loosen the screw clamps on the mating power connector.
3. Strip the insulation from the power cables.



Power Connector

4. Secure the power cable to the mating connector, noting polarity, and tighten the screw clamps. The torque for the attaching screws is 0.3 Nm (2.26 in-lb).
5. Apply dc power to the unit. During normal startup and operation, the Quick Panel+ status LED indicator displays as follows:
   - *Solid amber* while the Quick Panel+ unit is starting up
   - *Solid green* during normal operation
6. Once power is applied, the Quick Panel+ begins initializing. The first thing to display is the splash screen.

➢ To skip running any programs included in the Startup folder, tap **Don't run Startup programs**. The Microsoft Windows Embedded Compact 7 operating system starts automatically.

3.4 LED Indicators

3.4.1 Operation Status LEDs

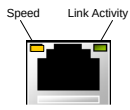
The Quick Panel+ has one tri-color LED that provides visual operation status indication for the IC755CxS06RDx, IC755CxW07CDx, and IC755CxSxxCDx units.

LED State	Quick Panel+ State
Amber, solid	Operating system starting
Green, solid	Normal operating state
Green, blinking	Backlight off
Red, blinking	Backlight failure

Off	Power not applied to unit

3.4.2 Ethernet Port Operation LEDs

The Ethernet port has two LED indicators: Speed and Link Activity.



LED	LED State	Operating State
Speed	Yellow, on	10/100
Link Activity	Green, on	Link status

4. Mounting and Installation

4.1 Protective Sheet Installation

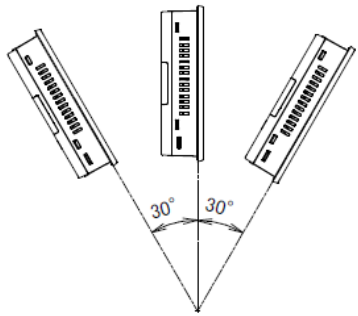
➢ To install the protective sheet

1. Remove the protective film from the QuickPanel+ display screen.
2. Wipe the display unit of any dust or fingerprints.
3. Peel back a corner of the clear side of the protective sheet.
4. Begin applying the corner to the display screen.
5. Slowly apply the rest of the protective sheet, smoothing out as you go.
6. Peel the green curing film from the protective sheet.

4.2 Mounting Location

When mounting the Quick Panel+ Operator Interface, make sure the mounting area allows room to insert and remove the SD card, cables, and mounting brackets. Select a location that allows natural convection air flow from bottom to top of the Quick Panel+ enclosure. Do not mount the Quick Panel+ at an angle more than 30° from the vertical, as illustrated in the following figure. Refer to the section, *Environmental Specifications*.

Figure 4.1: Mounting Angle



4.3 Panel Mounting

To mount the Quick Panel+ in an enclosure, you will need the following equipment:

- One #2 Phillips head screwdriver
- Mounting brackets (supplied)

The mounting holes for the IC755CxS06RDx, IC755CxW07CDx, and IC755CxS10CDx are located on the top and bottom sides of the unit.

Figure 4.2: IC755CxS06RDx Mounting Holes

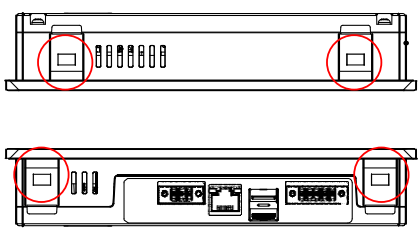


Figure 4.3: IC755CxW07CDx Mounting Holes

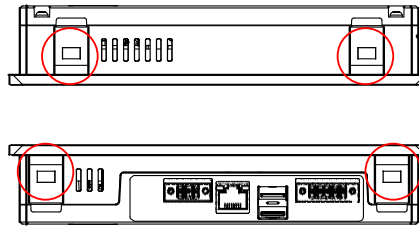
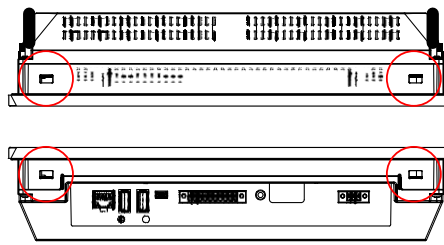


Figure 4.4: IC755CxS10CDx Mounting Holes



The IC755CxS12CDx and IC755CxS15CDx mounting holes are located on the top, bottom, and sides of the unit.

Figure 4.5: IC755CxS12CDx Mounting Holes

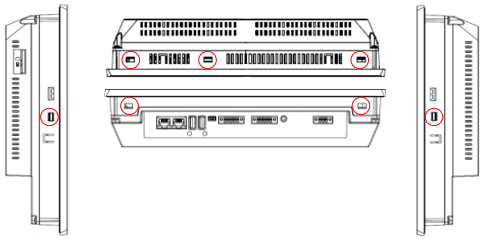
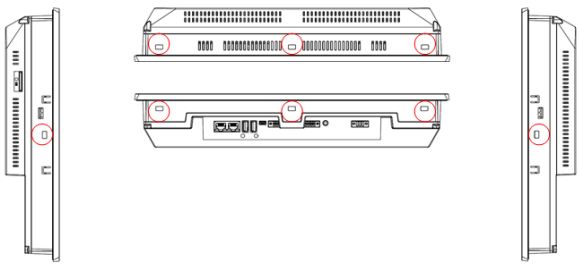


Figure 4.6: IC755CxS15CDx Mounting Holes



4.4 Mounting and Installation Procedure

⚠ CAUTION

- When installing the Quick Panel+ into the panel, pay careful attention while handling the unit so it does not drop and damage the unit.

➢ **To install the Quick Panel+**

1. Cut an opening in the panel according to the specifications in the following figures.

Note: *Panel cutout tolerances are +0.50, -0.00 mm (+0.02, -0.00 in).*

Figure 4.7: IC755CxS06RDx Panel Cutout Dimensions

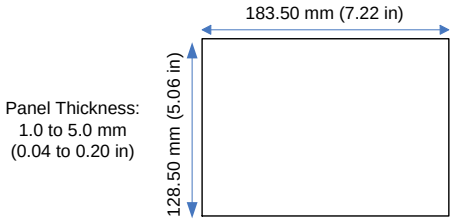


Figure 4.8: IC755CxW07CDx Panel Cutout Dimensions

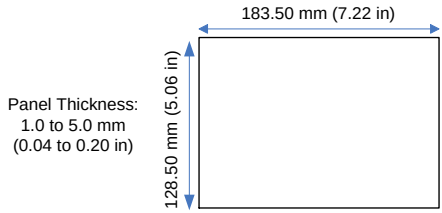


Figure 4.9: IC755CxS10CDx Panel Cutout Dimensions

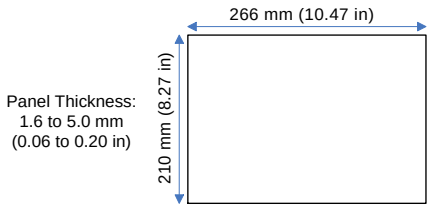


Figure 4.10: IC755CxS12CDx Panel Cutout Dimensions

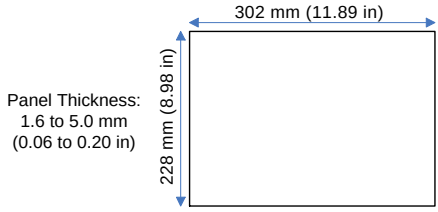
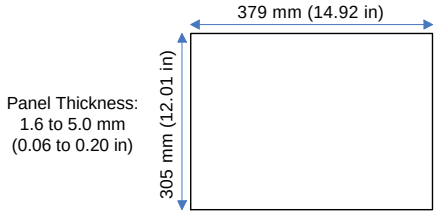
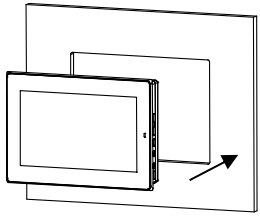


Figure 4.11: IC755CxS15CDx Panel Cutout Dimensions



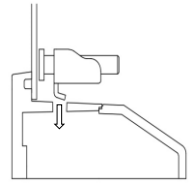
2. Verify that the gasket is present and properly seated in the bezel channel located on the sides of the unit.
3. Insert the Quick Panel+ into the mounting panel cutout.

Figure 4.12: Cutout for Quick Panel



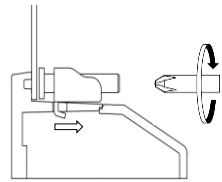
4. Insert the hook of the mounting bracket into the mounting hole as displayed in the following figure.

Figure 4.13: Hook of Mounting Bracket



5. Tighten the screws on the mounting bracket in a clock-wise direction.

Figure 4.14: Mounting bracket screw turning



Torque Range for Mounting Clamp Screws

Display Unit	Torque Range
IC755CxS06RDx	0.3 Nm (2.66 in-lb)
IC755CxW07CDx	0.3 Nm (2.66 in-lb)
IC755CxS10CDx	0.7 Nm (6 in-lb)
IC755CxS12CDx	1.0 to 1.2 Nm (8.5 to 10.6 in-lb)
IC755CxS15CDx	1.0 to 1.2 Nm (8.5 to 10.6 in-lb)

4.5 VESA Arm Mounting

The Quick Panel+ can be installed on a commercially available Video Electronics Standards Association (VESA) MIS-D arm, stand, or apparatus that complies with the UL1678 standard.

- **To VESA mount the Quick Panel+ unit:**
  use the mounting holes located on the back of the unit (displayed in the following figures).

  The mounting holes for IC755CxS06RDx and IC755CxW07CDx attach with M4 screws that are 6 mm (0.24 in) or less in length.

The mounting holes for IC755CxSxxCDx mounting holes attach with M4 screws that are 8 mm (0.32 in) or less in length.

Torque Range for Mounting M4 Screws

Display Unit	Torque Range
IC755CxS06RDx	0.7 to 0.8 Nm (6.2 to 7.1 in-lb)
IC755CxW07CDx	0.7 to 0.8 Nm (6.2 to 7.1 in-lb)
IC755CxSxxCDx	1.0 to 1.2 Nm (8.9 to 10.6 in-lb)

Figure 4.15: IC755CxW07CDx/IC755CxS06RDx VESA Mounting Holes

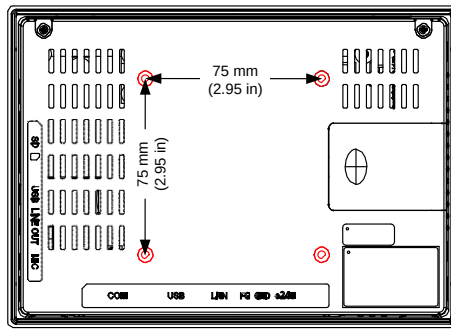
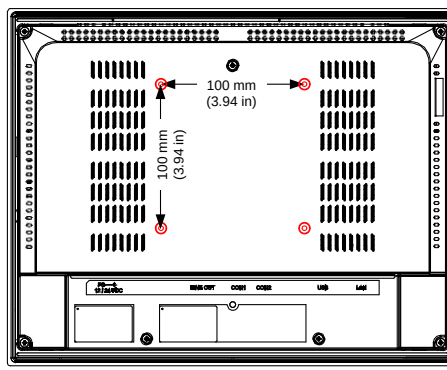


Figure 4.16: IC755CxSxxCDx VESA Mounting Holes



Note: *For user manuals, product updates, and other information, go to the Support website, https://www.emerson.com/Industrial-Automation-Controls/support and refer to Operator Interfaces and PC.*

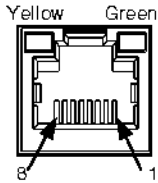
4.6 Connectors

4.6.1 Power Connector Details

Pin #	Signal Name	Pin-out
1	+24 V dc†	
2	GND	
3	FG	
† IC755CxSxxCDA supports both +12 V dc or +24 V dc IN		

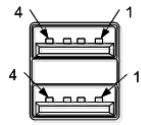
4.6.2 Ethernet Port Details

Interface: Ethernet 10BASE-T/100BASE-TX

Pin #	Signal Name	Pin-out
1	TX+	
2	TX-	
3	RX+	
4	NC	
5	NC	
6	RX-	
7	NC	
8	NC	

4.6.3 USB Host Port Details

Interface: 2x USB 2.0

Pin #	Signal Name	Pin-out
1	USB_VCC	
2	USB_D-	
3	USB_D+	
4	USB_GND	

5.

4.6.4 Serial Port Details

IC755CxS06RDx
Serial Port COM1

Interface: RS-232

Pin #	Signal Name
1	TXD
2	RXD
3	RTS
4	CTS
5	SGND

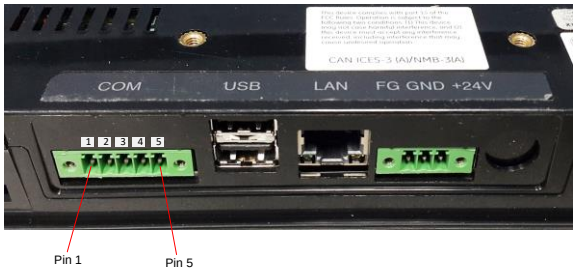
Figure 4.2: IC755CxS06RDx Serial Port COM1 Pin-out

IC755CxW07CDx

Interface: x1 RS-232

Pin#	Signal Name
1	TXD
2	RXD
3	RTS
4	CTS
5	SGND

Figure 4.3: IC755CxW07CDx Serial Port COM1 Pin-out



IC755CxSxxCDx
Serial Port COM1

Interface: RS-232

Pin #	Signal Name
1	TXD
2	RXD
3	RTS
4	CTS
5	SGND

Figure 4.4: C755CxSxxCDx Serial Port COM1 Pin-out

4.6.4.3.2 Serial Port COM2

Interface: RS-232C/485 (default is RS-485 Half-duplex)

Pin #	RS-232	RS-485	
	Signal Name	Signal Name (Full-duplex†)	Signal Name (Half-duplex†)
1	TXD	TXD+	DATA+‡
2	RXD	TXD-	DATA-‡
3	RTS	RXD+	DATA+‡
4	CTS	RXD-	DATA-‡
5	SGND	SG	SG

† Full-duplex RS–485 is backwards compatible to RS–422 mode.

‡ Pins 1-3 and 2-4 are connected internally.

Figure 4.5: C755CxSxxCDx Serial Port COM2 Pin-out

5. Product Certifications and Installation Guidelines for Conformance

The Quick Panel+ Operator Interface is intended for use in industrial environments and, when properly installed, shall comply with the following agency approvals.

5.1 Agency Approvals

Note: The agency approvals listed in the following table and on the Declaration of Conformities are believed to be accurate. However, the product's agency approvals should be verified by the marking on the unit itself.

Description	Agency Marking	Comments
N.A. Safety for Programmable Controller for use in Hazardous locations Class I Division 2 Groups A, B, C, D (applicable to 7",10",12", 15" Display units) Class I Division 2 Groups A, B, C, D; Class 2 Division 2 Groups F, G; Class 3 Division 1 and Division 2 (applicable only to 6" Display unit)	c UL us LISTED	Certification by Underwriter's Laboratories (UL) to UL 61010-1; UL 61010-2-201; CSA C22.2 No 142–1987; CSA 61010-1; CSA 61010-2-201 ISA 12.12.01 standard and CSA C22.2 No 213-M1987

Description	Agency Marking	Comments
Explosive Atmospheres Directive European Safety for Hazardous Areas Equipment Group II, Category 3, Gas Groups IIC, Dust Group IIIC		Certification in accordance with the ATEX Directive 14/34/EU with an Independent 3rd Party Assessment Certificate only applies to the 12" and 15" Display units: EN 60079-0/A11, EN 60079-15, and EN 60079-31; Part numbers: IC755CSW07CDACA, IC755CSS10CDACA, IC755CSS12CDBCA, IC755CSS15CDACA
Electromagnetic Compatibility Directive European Electromagnetic Compatibility (EMC) for Industrial Control Equipment		Self-declaration in accordance with European Directives EN61000-6-2, EN61000-6-4
Maritime Society Certification	**Product not marked, verified by certificate**	American Bureau of Shipping (ABS), Det Nortske Veritas /Germanischer Lloyds (DNV-GL), and Bureau Veritas (BV) certification on conformal coated 6, 7, 10, 12, 15" units only.

5.2 Conditions of Safe Use for Installation in Hazardous Locations

The following information applies to products bearing the UL marking for Hazardous areas and the ATEX marking for Zone 2 explosive atmospheres:

- Suitable for use in Class I Division 2 Groups A, B, C, D; Class 2 Division 2 Groups F, G; Class 3 Division 1 and Division 2.

- Suitable for Group II, Category 3, Gas Groups IIC, Dust Group IIIC (applicable only to the IC755CSW07CDACA, IC755CSS10CDACA, IC755CSS12CDBCA, and IC755CSS15CDACA Display units):
  1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.

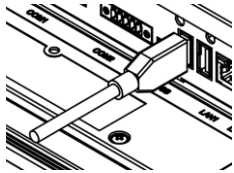
     Note: *Pollution degree 2 can be achieved when the installation is in a controlled environment with suitably controlled condensation or airborne pollution.*

  2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 60079-0.

  3. Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
- USB retaining clamp for IC755CxS12CDBCA and IC755CxS15CDACA must be used in hazardous location installations as follows:

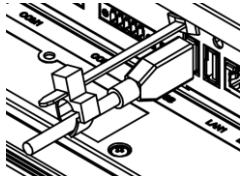
1. Connect the USB cable.

Figure 5.1: USB cable



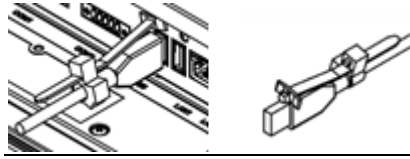
2. Insert the retaining clamp in the port above the USB connector.

Figure 5.2: USB Retaining Clamp



3. Adjust the position of the retaining clamp by pushing the lever of the retaining clamp. Then close the retaining clamp to fit the cable size.

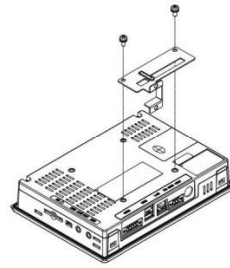
Figure 5.3: Adjusting position of retaining clamp



- USB retaining clamp for IC755CSW07CDACA must be used in hazardous location installations as follows:

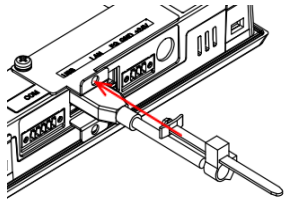
1. Connect the USB retaining clamp plate.

Figure 5.4: USB retaining Clamp Plate



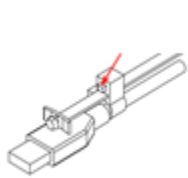
2. Connect the USB cable and insert the retaining clamp into the retaining clamp plate.

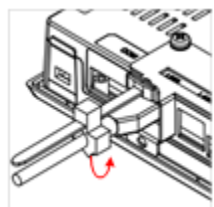
Figure 5.5: USB cable retaining clamp



3. Adjust the position of the retaining clamp by pushing the lever of the retaining clamp. Then close the retaining clamp to fit the cable size.

Figure 5.6: Inserting retaining clamp





⚠ WARNING

- **EXPLOSION HAZARD** - Do not connect or disconnect equipment power, communication, audio, or battery unless power has been removed or the area is known to be non-hazardous.
- **EXPLOSION HAZARD** - Substitution of components may impair suitability.
- **EXPLOSION HAZARD** -DO NOT VESA-MOUNT. Panel-mount only with enclosures that shall only be opened with the use of a tool in an area where the risk of impact is low.

- DO NOT MAKE ANY CONNECTIONS TO THE MINI-USB/MIC TERMINAL AS IT WILL INVALIDATE THE ATEX APPROVAL.

5.3 Government Regulations

The FCC requires the following note to be published according to FCC guidelines:

Note: *This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user is required to correct the interference at their own expense.*

Changes or modifications to this unit that are not expressly approved by Emerson could void the user's authority to operate the equipment.

Industry Canada requires the following note to be published:

Note: *This Class A digital apparatus complies with Canadian CAN ICES-3 (A)/NMB-3 (A).*

5.4 EMC Installation and Operation Considerations

This equipment is intended for industrial use only and complies with a minimum level of EMC performance as defined by EN 61000-6-2 and EN 61000-6-4 standards. To meet these requirements, the following installation and operation considerations to be considered:

- Shielding USB cables
- Limiting RS-232 cables to 15 m (49.2 ft) in length
- Using Audio ports only during operational maintenance

Although these considerations were deliberated during testing, actual EMC environments vary greatly. Therefore, these considerations may not be necessary. Likewise, additional measures, such as filtering, wire separation, and cable routing, may need to be considered to ensure intended operation of the overall system.

QUICK START GUIDE
GFK-2893P
Sep2019

Technical Support & Contact Information:

Home link: http://www.Emerson.com/Industrial-Automation-Controls

Knowledge Base: https://www.emerson.com/Industrial-Automation-Controls/support

Note: If the product is purchased through an Authorized Channel Partner, please contact the seller directly for any support.

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