

Specifications

IPCP Pro Q xi and xi Series

Memory

IPCP Pro xi Series	
SDRAM	1 GB
Flash	8 GB
IPCP Pro Q xi Series	
SDRAM	2 GB
Flash	8 GB

Software

Configuration software	Global Configurator® Plus and Professional
Programming software.....	Global Scripter®
Control apps	Extron Control
Resource management software....	GlobalViewer® Enterprise
Utilities	Toolbelt, embedded web page

Hardware user interface

Hardware	TouchLink® Pro touchpanels, Network Button Panels, or eBUS® button panels
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Ethernet

Network interface controllers (NICs)	
IPCP Pro 255Q xi, 355DRQ xi, 360Q xi, 555Q xi	2: 1 LAN, 1 AV LAN
All other models.....	1: 1 LAN
Network switch	
IPCP Pro 350 xi.....	1 LAN unmanaged 3 port switch
IPCP Pro 360Q xi	1 AV LAN unmanaged 3 port switch
Connectors	
IPCP Pro S1 xi.....	1 female RJ-45 connector
IPCP Pro PCS1 xi.....	1 female RJ-45 connector
IPCP Pro 250 xi.....	1 female RJ-45 connector
IPCP Pro 350 xi.....	3 female RJ-45 connectors
IPCP Pro 360Q xi	4 female RJ-45 connectors
IPCP Pro 550 xi.....	1 female RJ-45 connector
IPCP Pro 255Q xi, 355DRQ xi, 555Q xi	2 female RJ-45 connectors
Data rate.....	10/100/1000Base-T, half/full duplex with autodetect
Protocols	DHCP, DNS, HTTP (redirect), HTTPS, ICMP, IEEE 802.1X, NTP, SFTP, SMTP, SNMP, SSH, TCP/IP, UDP/IP

Specifications • IPCP Pro Q xi and xi Series (Continued)

Default settings — IPCP Pro 255Q xi, 355DRQ xi, 360Q xi, 555Q xi

LAN.....	Link speed and duplex level = autodetected IP address = 192.168.253.250 Subnet mask = 255.255.255.0 Gateway = 0.0.0.0 DHCP = off DNS = 127.0.0.1
AV LAN.....	Link speed and duplex level = autodetected DHCP server = disabled Subnet mask = 255.255.255.0 Gateway = 0.0.0.0
DHCP server disabled.....	IP address = 192.168.254.250 DNS = 127.0.0.1
DHCP server enabled	IP address = 192.168.254.1 DNS = 192.168.254.1 Dynamic leased IP address pool = 192.168.254.100 - 192.168.254.149 Maximum lease count = 50 Lease time = 24 hours

Default settings — All other models	Link speed and duplex level = autodetected IP address = 192.168.254.250 Subnet mask = 255.255.255.0 Gateway = 0.0.0.0 DHCP = off DNS = 127.0.0.1
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Serial

Quantity/type

IPCP Pro S1 xi, PCS1 xi	1 bidirectional RS-232
IPCP Pro 250 xi, 255Q xi.....	1 bidirectional RS-232, RS-422, RS-485 1 bidirectional RS-232
IPCP Pro 350 xi, 355DRQ xi, 360Q xi	1 bidirectional RS-232, RS-422, RS-485 2 bidirectional RS-232
IPCP Pro 550 xi, 555Q xi.....	2 bidirectional RS-232, RS-422, RS-485 6 bidirectional RS-232

Connectors

IPCP Pro S1 xi.....	(1) 3.5 mm captive screw connector, 5 pole
IPCP Pro PCS1 xi.....	(1) 3.5 mm captive screw connector, 3 pole
IPCP Pro 250 xi, 255Q xi.....	(1) 3.5 mm captive screw connector, 5 pole (1) 3.5 mm captive screw connectors, 3 pole
IPCP Pro 350 xi, 355DRQ xi, 360Q xi	(1) 3.5 mm captive screw connector, 5 pole (2) 3.5 mm captive screw connectors, 3 pole
IPCP Pro 550 xi, 555Q xi.....	(2) 3.5 mm captive screw connectors, 5 pole (6) 3.5 mm captive screw connectors, 3 pole

Baud rate and protocol	300 to 115200 baud (9600 baud = default); 8 (default) or 7 data bits; 1 (default) or 2 stop bits; no parity (default), even, or odd parity
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NOTE: The 5-pole ports support both hardware and software flow control.
The 3-pole ports support software flow control.
The default for both types of ports is no flow control.

Pin configurations

Serial, 5-pole captive screw

RS-232 (default).....	Pin 1 = Tx, 2 = Rx, 3 = Gnd, 4 = RTS, 5 = CTS
RS-422.....	Pin 1 = Tx-, 2 = Rx-, 3 = Gnd, 4 = Tx+, 5 = Rx+
RS-485.....	Pins 1 and 2 (tied together) = data-, 3 = Gnd, 4 and 5 (tied together) = data+

Serial, 3-pole captive screw..... Pin 1 = Tx, 2 = Rx, 3 = Gnd

Specifications • IPCP Pro Q xi and xi Series (Continued)

Digital I/O — IPCP Pro PCS1 xi, 250 xi, 255Q xi, 350 xi, 355DRQ xi, and 360Q xi only

Quantity/type	
IPCP Pro PCS1 xi.....	3 digital input/output (configurable)
All other models.....	4 digital input/output (configurable)
Connectors	
IPCP Pro PCS1 xi.....	(1) 3.5 mm captive screw connector, 4 pole
All other models.....	(1) 3.5 mm captive screw connector, 5 pole
Digital inputs	
Input voltage range.....	0 to 24 VDC, clamped at +30 VDC
Input impedance	>10k ohms
Programmable pullup	1k ohms to +5 VDC
Threshold low to high	2.8 VDC
Threshold high to low	2.0 VDC
Digital outputs.....	250 mA sink from 24 VDC max.
Pin configurations	1, 2, 3, 4 = digital I/Os 1, 2, 3, 4; 5 = Gnd

Flex I/O — IPCP Pro 550 xi and IPCP Pro 555Q xi only

Quantity/type	4 analog input or digital input/output (configurable)
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Digital inputs	
Input voltage range.....	0 to 24 VDC, clamped at +30 VDC
Input impedance	29k ohms
Programmable pullup	1k ohms to +5 VDC
Threshold low to high	Programmable range: 100 mV to 24 VDC, default = 2.4 VDC
Threshold high to low	Programmable range: 100 mV to 24 VDC, default = 0.8 VDC
Digital outputs.....	250 mA sink from 24 VDC max.
Analog inputs.....	12 bit A/D, 0 to 24 VDC
Pin configurations	1, 2, 3, 4 = flex I/Os 1, 2, 3, 4; 5 = Gnd

IR/serial

Quantity/type	
IPCP Pro PCS1 xi, 250xi, 255Q xi	1 programmable: unidirectional RS-232 (± 5 V), or TTL level (0 to 5 V) infrared (carrier and non-carrier) up to 300 kHz
IPCP Pro 350 xi, 355DRQ xi, 360Q xi	2 programmable: unidirectional RS-232 (± 5 V), or TTL level (0 to 5 V) infrared (carrier and non-carrier) up to 300 kHz
IPCP Pro 550 xi, 555Q xi.....	8 programmable: unidirectional RS-232 (± 5 V), or TTL level (0 to 5 V) infrared (carrier and non-carrier) up to 300 kHz
Connectors	
IPCP Pro PCS1 xi, 250xi, 255Q xi	(1) 3.5 mm captive screw connector, 2 pole
IPCP Pro 350 xi, 355DRQ xi, 360Q xi	(1) 3.5 mm captive screw connector, 5 pole
IPCP Pro 550 xi, 555Q xi.....	(4) 3.5 mm captive screw connectors, 4 pole
Baud rate and protocol (RS-232) ...	300 to 115200 baud (9600 baud = default); 8 (default) or 7 data bits; 1 (default) or 2 stop bits; no parity (default), even, or odd parity
Pin configurations	For each port, pin 1 = signal, 2 = Gnd
IR output carrier frequency.....	30 kHz to 300 kHz
IR learning carrier frequency.....	30 kHz to 300 kHz (for units with IR learning)
IR learning capture distance.....	2" (5.1 cm) to 12" (30.5 cm) from the front panel (for units with IR learning)

Relay

Quantity/type	
IPCP Pro 250 xi, 255Q xi.....	2 normally open relays
IPCP Pro 350 xi, 355DRQ xi, 360Q xi	4 normally open relays
IPCP Pro 550 xi, 555Q xi.....	8 normally open relays
Relay control connectors	
IPCP Pro 250 xi, 255Q xi.....	(1) 3.5 mm captive screw connector, 3 pole
IPCP Pro 350 xi.....	(1) 3.5 mm captive screw connector, 6 pole
IPCP Pro 355DRQ xi	(2) 3.5 mm captive screw connectors, 3 pole
IPCP Pro 550 xi, 555Q xi.....	(4) 3.5 mm captive screw connectors, 4 pole
Relay control contact rating.....	24 VDC, 1 A

Volume control — IPCP Pro 250 xi and IPCP Pro 255Q xi only

Quantity/type	1 volume control (compatible with select Extron amplifiers)
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Pin configuration	Pin 3 = ≤10 VDC reference voltage input, pin 4 = 0 to +10 VDC control voltage output, pin 5 = Gnd
Control voltage output range.....	0 to +10 VDC (±0.2 volts), adjustable

eBUS — All models except IPCP Pro S1 xi

eBUS control ports	
IPCP Pro PCS1 xi.....	(1) 3.5 mm captive screw connector, 4 pole
IPCP Pro 355DRQ xi	(1) 3.5 mm captive screw connector, 4 pole
All other models.....	(1) 3.5 mm captive screw connector, 5 pole (uses 4 poles)
eBUS pin configuration	+V = +12 VDC; +S = + signal; -S = - signal; G = ground
Recommended cable type.....	Extron STP20-2/1000 or STP20-2P/1000 cable
Maximum system cable length.....	1000 feet (305 meters) sum total for the eBUS system, regardless of topology. Power injection may be required depending on system cabling topology and primary power supply wattage. See the <i>eBUS Technology Reference Guide</i> for details.
eBUS power output	
IPCP Pro 550 xi, 555Q xi.....	12 watts
All other models.....	6 watts

Switched DC power output — IPCP Pro 550 xi and IPCP Pro 555Q xi only

Quantity/type	4 switched 12 VDC outputs
Connectors	(4) 3.5 mm captive screw connectors, 2 pole
Power	Maximum 40 watts total
Power sense	
Range	0.1 watt to 40 watts

Switched PoE+ power output — IPCP Pro 360Q xi only

Quantity/type	2 switched PoE+ outputs
Connectors	2 female RJ-45 connectors (2 AV LAN ports)
Power	Maximum 30 watts per port
Power sense	
Range	0 watt to 30 watts
Resolution	0.3 watts

Switched AC power output — IPCP Pro PCS1 xi only

Connectors

Input.....	1 male IEC power connector, 6" (15 cm)
Output.....	1 female IEC power connector, 6" (152 mm)

NOTE: 1 male IEC to female Edison adapter is included.

Voltage.....	100-240 VAC, 50-60 Hz
Maximum AC load	10 A, 6.0 watts at 120 VAC 10 A, 6.0 watts at 220 VAC
Current sense	
Range	0 A to 10 A
Resolution	100 mA

General

Power supply

IPCP Pro S1 xi.....	External, included Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 0.5 A, 6 watts
IPCP Pro 250 xi, 255Q xi, 350 xi, 355DRQ xi	External, included Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
IPCP Pro PCS1 xi, 360Q xi, 550 xi, 555Q xi	Internal Input: 100-240 VAC, 50-60 Hz

Power input requirements

Power input requirements.....	12 VDC, 1 A, 12 watts, max. Or Power over Ethernet (PoE) (complies with PoE 802.3af, class 3)
IPCP Pro 250 xi, 255Q xi, 350 xi, 355DRQ xi	12 VDC, 1 A, 12 watts, max.

Power consumption

IPCP Pro S1 xi	
Device	TBD watts, 12 VDC
Device and power supply...	TBD watts, 100-240 VAC, 50-60 Hz
IPCP Pro PCS1 xi.....	10.1 watts (with no load at the AC output)
IPCP Pro 250 xi	
Device	8.7 watts, 12 VDC
Device and power supply...	9.7 watts, 100-240 VAC, 50-60 Hz
IPCP Pro 255Q xi	
Device	10.0 watts, 12 VDC
Device and power supply...	11.1 watts, 100-240 VAC, 50-60 Hz
IPCP Pro 350 xi	
Device	10.7 watts, 12 VDC
Device and power supply...	11.7 watts, 100-240 VAC, 50-60 Hz
IPCP Pro 355DRQ xi	
Device	9.4 watts, 12 VDC
Device and power supply...	10.7 watts, 100-240 VAC, 50-60 Hz
IPCP Pro 360Q xi	72.9 watts
IPCP Pro 550 xi.....	63.6 watts
IPCP Pro 555Q xi	65.0 watts

Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents

Specifications • IPCP Pro Q xi and xi Series (Continued)

Thermal dissipation

IPCP Pro S1 xi	
Device	TBD BTU/ hr
Device and power supply...	TBD BTU/hr
IPCP Pro PCS1 xi	14.0 BTU/hr (with no load at the AC output)
IPCP Pro 250 xi	
Device	9.2 BTU/ hr
Device and power supply...	12.5 BTU/hr
IPCP Pro 255Q xi	
Device	13.7 BTU/hr
Device and power supply...	17.3 BTU/hr
IPCP Pro 350 xi	
Device	16.1 BTU/hr
Device and power supply...	19.3 BTU/hr
IPCP Pro 355DRQ xi	
Device	11.4 BTU/hr
Device and power supply...	15.8 BTU/hr
IPCP Pro 360Q xi	51.4.D BTU/hr
IPCP Pro 550 xi	44.8 BTU/hr
IPCP Pro 555Q xi	49.6 BTU/hr

Mounting

IPCP Pro 355DRQ xi	
Rack mount	No
DIN rail mount	Yes, fits a standard 35 mm high DIN rail
All other models	
Rack mount	Yes, with optional 1U rack shelf
Furniture mount	Yes, with optional bracket kit

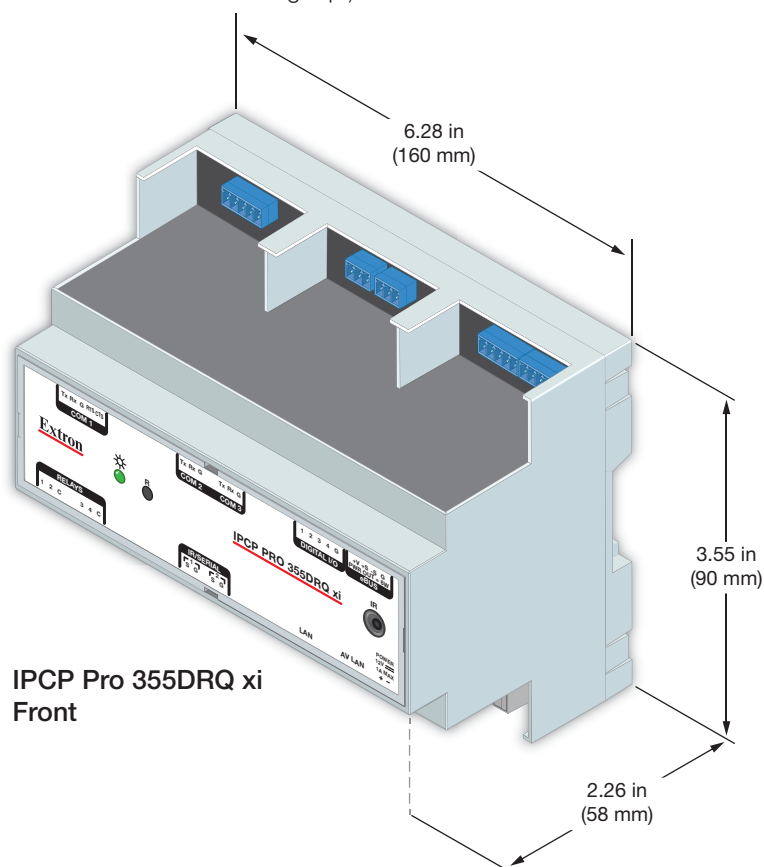
Enclosure type

IPCP Pro 355DRQ xi	Plastic
All other models	Metal

Specifications • IPCP Pro Q xi and xi Series (Continued)

Enclosure dimensions

IPCP Pro S1 xi, 250 xi, 255Q xi, 350 xi	1.7" H x 4.3" W x 6.0" D (1U high, quarter rack wide) (43 mm H x 109 mm W x 152 mm D) (Depth excludes connectors.)
IPCP Pro PCS1 xi.....	1.7" H x 4.3" W x 8.0" D (1U high, quarter rack wide) (43 mm H x 109 mm W x 203 mm D) (Depth excludes connectors.)
IPCP Pro 355DRQ xi	3.55" H x 6.28" W x 2.26" D (90 mm H x 160 mm W x 58 mm D) (Height excludes bottom of mounting clip.)



All other models.....	1.7" H x 8.7" W x 10.5" D (1U high, half rack wide) (43 mm H x 221 mm W x 267 mm D) (Depth excludes connectors.)
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Product weight

IPCP Pro S1 xi.....	TBD lbs (TBD kg)
IPCP Pro PCS1 xi.....	1.4 lbs (0.6 kg)
IPCP Pro 250 xi.....	0.7 lbs (0.3 kg)
IPCP Pro 255Q xi	0.8 lbs (0.4 kg)
IPCP Pro 350 xi.....	1.4 lbs (0.6 kg)
IPCP Pro 355DRQ xi	0.6 lbs (0.3 kg)
IPCP Pro 360Q xi	2.9 lbs (1.3 kg)
IPCP Pro 550 xi, 555Q xi.....	2.4 lbs (1.1 kg)

Specifications • IPCP Pro Q xi and xi Series (Continued)

Regulatory compliance	
IPCP Pro S1 xi.....	CE, C-Tick, c-UL, FCC Class A, ICES, KCC, VCCI UL Listed for use in plenum air handling spaces: meets UL 2043 for heat and smoke release. Complies with the appropriate requirements of RoHS, WEEE
IPCP Pro PCS1 xi, 355DRQ xi, 360Q xi, 550 xi, 555Q xi	CE, C-Tick, c-UL, FCC Class A, ICES, UL, VCCI Complies with the appropriate requirements of RoHS, WEEE
All other models.....	CE, C-Tick, c-UL, FCC Class A, ICES, UL, VCCI Complies with the appropriate requirements of RoHS, WEEE
Product warranty	3 years parts and labor
Everlast power supply warranty.....	7 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.
NOTE: Specifications are subject to change without notice.
NOTE: Shipping weights and dimensions are available at www.extron.com .

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