

Specifications

IPCP Pro Series

Memory

SDRAM.....	512 MB
Flash.....	4.5 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, NBP button panels, or eBUS® button panels
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Ethernet

Network interface controllers (NICs)

IPCP Pro 255, 355DR, 360, 555	2: 1 LAN, 1 AV LAN
All other models.....	1

Network switch

IPCP Pro 350	1 LAN unmanaged 3 port switch
IPCP Pro 360	1 AV LAN unmanaged 3 port switch

Connectors

IPCP Pro PCS1	1 female RJ-45 connector
IPCP Pro 250	1 female RJ-45 connector
IPCP Pro 350	3 female RJ-45 connectors
IPCP Pro 360	4 female RJ-45 connectors
IPCP Pro 550	1 female RJ-45 connector
IPCP Pro 255, 355DR, 555	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

Default settings — IPCP Pro 255, 355DR, 360, 555

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

Specifications • IPCP Pro Series (Continued)

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

Serial

Quantity/type

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

Connectors

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

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

Digital I/O — IPCP Pro PCS1, 250, 255, 350, 350M, 355DR, and 360 only

Quantity/type

IPCP Pro PCS1	3 digital input/output (configurable)
All other models.....	4 digital input/output (configurable)

Connectors

IPCP Pro PCS1	(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

Specifications • IPCP Pro Series (Continued)

Flex I/O – IPCP Pro 550 and IPCP Pro 555 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, 250, 255	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, 355DR, 360	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, IPCP Pro 555	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, 250, 255	(1) 3.5 mm captive screw connector, 2-pole
IPCP Pro 350, 355DR, 360	(1) 3.5 mm captive screw connector, 5-pole
IPCP Pro 550, IPCP Pro 555	(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, 255	2 normally open relays
IPCP Pro 350, 355DR, 360	4 normally open relays
IPCP Pro 550, IPCP Pro 555	8 normally open relays
Relay control connectors	
IPCP Pro 250, 255	(1) 3.5 mm captive screw connector, 3 pole
IPCP Pro 350	(1) 3.5 mm captive screw connector, 6 pole
IPCP Pro 350, 355DR, 360	(2) 3.5 mm captive screw connectors, 3-pole
IPCP Pro 550, IPCP Pro 555	(4) 3.5 mm captive screw connectors, 4 pole
Relay control contact rating.....	24 VDC, 1 A

Volume control – IPCP Pro 250 and IPCP Pro 255 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

Specifications • IPCP Pro Series (Continued)

eBUS

eBUS control ports	
IPCP Pro PCS1	(1) 3.5 mm captive screw connector, 4 pole
IPCP Pro 355DR	(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, IPCP Pro 555 ...	12 watts
All other models.....	6 watts

Switched DC power output – IPCP Pro 550 and IPCP Pro 555 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 360 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 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 250, 255, 350	External, included Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
IPCP Pro 355DR	External, included Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
IPCP Pro PCS1, 360	Internal Input: 100-240 VAC, 50-60 Hz
IPCP Pro 550, IPCP Pro 555 ...	Internal Input: 100-240 VAC, 50-60 Hz

Specifications • IPCP Pro Series (Continued)

Power input requirements	
IPCP Pro 250, 255, 350	12 VDC, 1 A, 12 watts, max.
IPCP Pro 355DR	12 VDC, 1 A, 12 watts, max.
Power consumption	
IPCP Pro PCS1	3.1 watts with no load at the AC output 3.7 watts without eBUS and with no load at the AC output
IPCP Pro 250	
Device	8.8 watts, 12 VDC 3.4 watts without eBUS
Device and power supply ..	11.0 watts, 100-240 VAC, 50-60 Hz 4.6 watts, 100-240 VAC, 50-60 Hz without eBUS
IPCP Pro 255	
Device	9.0 watts, 12 VDC 3.5 watts without eBUS
Device and power supply ..	11.9 watts, 100-240 VAC, 50-60 Hz 4.8 watts, 100-240 VAC, 50-60 Hz without eBUS
IPCP Pro 350	
Device	9.8 watts, 12 VDC 5.6 watts without eBUS
Device and power supply ..	11.9 watts, 100-240 VAC, 50-60 Hz 6.6 watts, 100-240 VAC, 50-60 Hz without eBUS
IPCP Pro 355DR	
Device	8.8 watts, 12 VDC 3.4 watts without eBUS
Device and power supply ..	11.5 watts, 100-240 VAC, 50-60 Hz 4.0 watts, 100-240 VAC, 50-60 Hz without eBUS
IPCP Pro 360	72.8 watts 10.1 watts, 100-240 VAC, 50-60 Hz without eBUS or PoE+ output
IPCP Pro 550	61.8 watts 6.2 watts, 100-240 VAC, 50-60 Hz without eBUS or switched 12 VDC output
IPCP Pro 555	65.2 watts 6.9 watts, 100-240 VAC, 50-60 Hz without eBUS or switched 12 VDC output
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 Series (Continued)

Thermal dissipation

IPCP Pro PCS1	10.6 BTU/hr with no load at the AC output 12.6 BTU/hr without eBUS and with no load at the AC output
IPCP Pro 250	
Device	9.5 BTU/ hr 11.5 BTU/hr without eBUS
Device and power supply ..	16.8 BTU/hr 15.6 BTU/hr without eBUS
IPCP Pro 255	
Device	10.1 BTU/hr 11.9 BTU/hr without eBUS
Device and power supply ..	20.1 BTU/hr 16.4 BTU/hr without eBUS
IPCP Pro 350	
Device	12.9 BTU/hr 19.1 BTU/hr without eBUS
Device and power supply ..	19.9 BTU/hr 22.5 BTU/hr without eBUS
IPCP Pro 355DR	
Device	9.3 BTU/hr 11.4 BTU/hr without eBUS
Device and power supply ..	18.6 BTU/hr 13.7 BTU/hr without eBUS
IPCP Pro 360	56.8 BTU/hr 34.3 BTU/hr without eBUS or PoE+ output
IPCP Pro 550	33.3 BTU/hr 21.1 BTU/hr without eBUS or switched 12 VDC output
IPCP Pro 555	45.8 BTU/hr 23.4 BTU/hr without eBUS or switched 12 VDC output

Mounting

IPCP Pro PCS1, 250	
Rack mount	Yes, with optional 1U rack shelf
Furniture mount	Yes, with optional bracket kit
IPCP Pro 355DR	
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

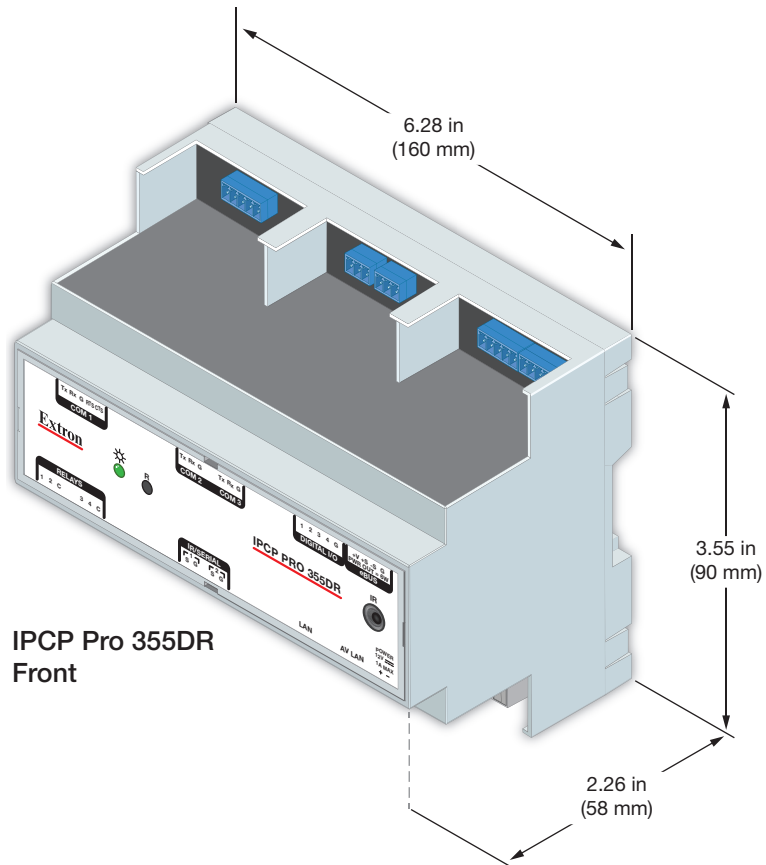
Enclosure type

IPCP Pro 355DR	Plastic
All other models	Metal

Specifications • IPCP Pro Series (Continued)

Enclosure dimensions

IPCP Pro 250, 255, 350	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	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 355DR	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 PCS1	1.4 lbs (0.6 kg)
IPCP Pro 250, 255	0.7 lbs (0.3 kg)
IPCP Pro 350	1.4 lbs (0.6 kg)
IPCP Pro 355DR	0.6 lb (0.3 kg)
IPCP Pro 360	3.0 lbs (1.2 kg)
IPCP Pro 550, IPCP Pro 555 ...	2.5 lbs (1.1 kg)

Regulatory compliance

IPCP Pro PCS1, IPCP Pro 355DR

CE, C-Tick, c-UL, FCC Class A, ICES, UL, VCCI
Complies with the appropriate requirements of RoHS, WEEE

IPCP Pro 360, 550, 555

CE, C-Tick, c-UL, FCC Class A, ICES, KC, UL, VCCI
Complies with the appropriate requirements of RoHS, WEEE

All other models.....

CE, C-Tick, c-UL, FCC Class A, ICES, KC, UL, UL Listed for use in plenum air handling spaces (meets UL 2043 for heat and smoke release), VCCI
Complies with the appropriate requirements of RoHS, WEEE

Specifications • IPCP Pro Series (Continued)

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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