



# kramer

## FC-28

10-port Serial, IR, GPI/O and Relay, PoE  
Control Gateway

| Ethernet - RJ-45



The FC-28 is a PoE-powered control gateway, capable of plug and play deployment over customer Ethernet LAN for remote control of customer controlled devices via bidirectional RS-232, IR, GPI/O and relay control connections. Multiple control clients can be IP-connected to the FC-28 control gateway for concurrent control of two RS-232, four IR controllable devices, such as AV scalars, video displays, audio amplifiers, DVD players, sensors, screens, shades, door locks, and lighting

## FEATURES

- 2 RS-232 Bi-directional Control Ports - Control a device via bi-directional serial control protocols
- 4 IR Emitter Control Ports - Control a device via IR control protocols
- 2 GPI/O Control Ports - Controls a device via general purpose I/O ports, program-configured as digital input, digital output or analog input interface for controlling sensors, door-locks, audio volume and light dim level, or lighting control devices
- 2 Relay Control Ports - Control a device via relay contact closure, such as scrolling up and down screens, drapes, shades, and blinds
- Simultaneous IP Control Communication - With up to 40 IP control clients
- IR Sensor Port - Learns commands from IR remotes
- Mini USB Port - For firmware upgrades and local technical services
- 1 Ethernet Control Port - Remote protocol-based control port
- PoE Support - Per IEEE 802.3af standard
- Built-in Web Pages - Remote browser-based control and support
- Easy Installation - Single Ethernet cable wires for communication and PoE powering, and plug & play IP auto-setup deployment for simple and cost-reducing installation



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## TECHNICAL SPECIFICATIONS

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OUTPUTS:	4 IR & relays on 2-pin terminal blocks
PORTS:	2 RS-232 serial on 3-pin terminal blocks, 2 GPI/O on 2-pin terminal blocks, 1 Ethernet on an RJ-45 connector, 1 mini USB connector for local services, 1 built-in IR sensor (for learning)
SUPPORTED SERIAL PORT BAUD RATES:	1200, 2400, 4800, 9600, 19200, 38400, 57600, 15200bps
RS-232 COMMUNICATION:	Transparent up to 115200bps
IR EMITTER CABLE RANGE:	80m (260ft)
SUPPORTED IR INPUT FREQUENCIES:	20kHz to 60kHz
SUPPORTED IR OUTPUT FREQUENCIES:	20kHz to 1.2MHz
MAXIMUM DATA HANDLING OF DEVICE:	Up to 150kbps summed on all ports
POWER CONSUMPTION:	5V DC, 230mA
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F)
STORAGE TEMPERATURE:	-40° to +70°C (-40° to 158°F)
HUMIDITY:	10% to 90%, RHL non-condensing
COOLING:	Convection
ENCLOSURE TYPE:	Aluminum
RACK MOUNT:	With optional rack adapter
VIBRATION:	ISTA 1A in carton (International Safe Transit Association)
SAFETY REGULATORY COMPLIANCE:	CE
ENVIRONMENTAL REGULATORY COMPLIANCE:	Complies with appropriate requirements of RoHs and WEEE
INCLUDED ACCESSORIES:	Power adapter, IR Cable C-A35M/IRE-10
Product Dimensions	19.00cm x 11.60cm x 2.70cm (7.48" x 4.57" x 1.06" ) W, D, H
Product Weight	0.5kg (1.0lbs) approx
Shipping Dimensions	34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05" ) W, D, H
Shipping Weight	1.0kg (2.1lbs) approx

