



360 CORTEx

Davicom introduces its most powerful Remote Site Management System ever!

Based on the latest hardware processors running an embedded Linux Operating System, the Cortex 360 incorporates 30 years of experience and knowledge in the remote site management industry. The resulting product is a versatile and intelligent unit that is very reasonably priced.

Whether it be the redundant power supply inputs, the extensive networking/SNMP capabilities, the secure web-based access, the differential metering inputs with high common-mode voltages or the full electromagnetic immunity, **everything in the Cortex 360 says Professional Grade product!**



Specification	Number	Description
Metering (Analog) Inputs	8	Resolution: 12 bits; Bipolar/Differential; Selectable ranges: 0.5, 2.5, 5, 10, 20, 40 & 80 VDC; 4-20mA input mode jumper selectable; Impedance = 1 M Ω ; Audio Rectifier: software selectable.
Status (Digital) Inputs	16	Independent grounds on each input; Opto-isolated; Impedance > 22 k Ω ; Detection Levels: -12 to 0.8 VDC (low), +2.4 to +12 VDC (high). Activity monitoring & cumulative run-time on all inputs
Audio Inputs for remote listening	2	Via dial-up & IP streaming. Streaming sampling rate: 8kS/s to 48kS/s software selectable; Impedance: Line-in=29k Ω , Mic-in=2.9k Ω
Outputs (Commands)	8	Selectable NO/NC dry contact relays (70 VAC @ 0.4A, 30 VDC @ 2A) or open collector (100 mA)

See <http://cortex360.davicom.com> for more details or visit www.davicom.com

Specification	Number	Description
Local Access Port	1	USB type B connector located on front panel.
Serial Ports for On-Site Ancillary Equipment	1 + 8	1200 to 115200 bps, DB9 male connector located on rear panel. Extra 8 ports through 4-port USB hub + 4-port external hub.
Internal Modem	1	RJ-11 jack located on rear panel; Voice/Fax/Data; 56 kbps maximum; Fax up to 14400 bps; DTMF interface.
External Modems through USB Hub	4	USB modems required. Must support Linux CDC drivers.
USB Hub	4	Built-in, 4-port.
External USB Storage through USB Hub	4	Up to 4 external USB memory devices. FAT32 formatted.
Ethernet ports	4	Built-in switch, 4-port, 100 base T
Real Time Clock (RTC)		With 10 year backup battery. Optional sync to 50/60 Hz utility power. Optional TCXO. Optional 1 MHz or 1 PPS GPS clock sync.
Network Monitoring	64	Network Pings to on-site or off-site IP addresses.
Virtual Logic Gates	128	Logic decision points for automatic actions and controls.
Event scheduler & masker	128	Timers to trigger events or mask inputs at specific times. On days, dates, weeks, months or years and combinations thereof.
SNMP Agent		V1, V2c, V3. Full access to control & monitor all functions of the Cortex 360 unit
SNMP Manager		128 GET, 128 SET, 128 TRAP/INFORM. Optionally expandable to 1024 GET, 1024 SET, 1024 TRAP/INFORM.
SmartPhone App		Android & iOS
Backhaul modes		Dial-up, Ethernet, Cellular-data, Satellite, 2-way radio link.
Alarm transmission modes		Voice, SMS, E-Mail (with TXT & XML attachments), SNMP TRAP, Smartphone Notification, Pager, FAX, DavNet (Dial-up & IP).
Voice response languages		English, Spanish, French. Others available on request.
Protocols supported		HTTP, HTTPS, SNMP, FTP, DHCP, SMTP, DNS, NTP, ModBus
Electric Field Immunity		Tested to 10 V/m.
Electrostatic Discharge (ESD) Immunity		Tested to 12 kV.
Operating voltage/current		10 to 30 VDC. Typically 0.3 A @12VDC. Dual PSU inputs.
Auxiliary DC Outputs	2	5 VDC @ 500mA max, 12VDC @ 500mA max
Fuse		250 V, 3 A.
Operating Temperature Range		-40°C to +80°C, (-40°F to +176°F)
MECHANICAL SPECIFICATIONS :		
Dimensions	1 RU 19 x 17.5 x 12 in (W x H x D) 48.3 x 4.4 x 30.5 cm	
Weight	4 lbs (1.8 kg) dry, 5 lbs (2.3 kg) shipping	

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