



# 320 CORTEx

## Davicom's New Cortex 320 Manages Remote Sites on a Budget

Davicom's new Cortex 320 allows the cost-effective management of remote sites and incorporates over 30 years of experience and knowledge in the remote site management industry. The resulting product is a versatile and intelligent unit that is more than reasonably priced.

Whether it be the versatile inputs that can be configured for either Metering or Status signals, the relays that can be set for Form A, B or C operation, the SNMP agent, the small size, the secure web-based access or the full electromagnetic immunity, every aspect of the Cortex 320 has been optimized to maximize value for small budgets.



Specification	Number	Description
Versatile Inputs	12	Single-ended; Resolution: 12 bits; Selectable ranges: 0- 5 or 0-60VDC; Impedance = 1 M $\Omega$ ; Audio Rectifier: jumper selectable; Useable as Status Inputs also with selectable internal pull-up resistor;
Status (Digital) Inputs	4	Independent returns on each input; Selectable internal or external ground Opto-isolated; Impedance > 22 k $\Omega$ ; Detection Levels: -12 to 0.8 VDC (low), +2.4 to +12 VDC (high). Activity monitoring & cumulative run-time on all inputs
Audio Input for remote listening	1	Back-panel audio connector can be configured as either an input (for remote listening via dial-up & IP streaming), or as an output for audio alarm message transmission. Streaming sampling rate: 8kS/s to 48kS/s; Software selectable;
Outputs (Commands)	6	3 Form C Relays with C, NC and NO contacts 3 Form A/B Relays with individually-selectable NO/NC dry contacts

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Auxiliary DC Outputs	2	5 VDC @ 500mA max, 12VDC @ 500mA max
Local Access Port	1	USB type B connector located on front panel.
Serial Ports for On-Site Ancillary Equipment	2 + 2	2 with USB-to-Serial dongles and 2 with an external USB hub (not included).
Internal Modem	1	RJ-11 jack located on rear panel; Voice/Fax/Data; 56 kbps maximum; Fax up to 14400 bps; DTMF interface.
USB Hub	2	Built-in, 2-port.
Ethernet ports	1	100 base T
Real Time Clock (RTC)	Yes	With 10 year backup battery.
Virtual Logic Gates	128	Logic decision nodes for automatic actions and controls.
Virtual Relays	128	Virtual triggers for automatic actions and controls.
Event scheduler & masker	64	Timers to trigger events or mask inputs at specific times. On days, dates, weeks, months or years and combinations thereof.
Network Monitoring	32	Network Pings to on-site or off-site IP addresses.
Up/Down Counters	16	Up/Down Counters with High-Low limits & Reset, controllable from any I/O
Activity Monitoring	16	Activity Monitors that can keep track of the activity on any I/O
Math Functions	16	Math Functions can add, subtract, divide, multiply, find the square root or perform a logarithm function of sensor readings.
SNMP Agent	Yes	V1, V2c, V3. Full access to control & monitor all functions of the Cortex 320 unit
SNMP Manager*	*Cost Option	SNMP Manager is only available with the SNMP MGR package. This cost option gives 256 GET, 256 SET, 256 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		12VDC. Typically 200mA (275mA with all relays energized) . 24VDC option available.
Fuse		250 V, 3 A.
Operating Temperature Range		0-70°C (32°F to +158°F) (optional:-40°C to +80°C (-40°F to +176°F) range)
<b>MECHANICAL SPECIFICATIONS :</b>		
Dimensions	1 RU, half width 9.5 x 1.75 x 12 in (W x H x D). 24.1 x 4.4 x 30.5 cm	
Weight	2.75 lbs (1.25 kg) dry, 4 lbs (1.8 kg) shipping	

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