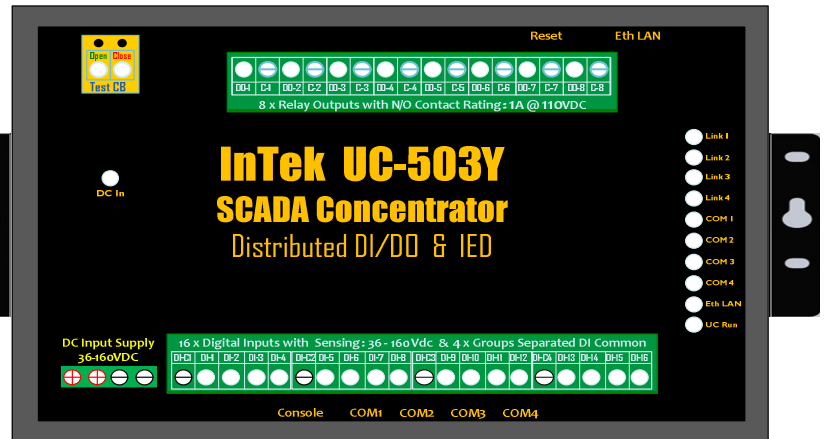


# InTek UC-503Y

## SCADA Concentrator / Master DTU

- . Substation Universal Concentrator
- . [ 16 DI @ 4 Groups & 8 DO/RO ]
- . Ethernet and optional WiFi and 3G/3.5G
- . GPS for TimeSync and Position w/ 3G
- . Wide Input Supply : 36-160 VDC
- . Wide Digital Input Sensing : 36-160 VDC
- . 1 x Built-In Physical Dummy CB
- . 4 x LED Status for Protocol & Device Links
- . Logger to USB Flash and/or SD Memory



### Processor, Memory, and Storage

ATMEL 400MHz AT91SAM9G20 w/MMU  
 64MB SDRAM & 128MB NAND Flash  
 2MB DataFlash for system recovery  
 SD (secure digital) memory slot  
 (compatible with SD memory card spec 1.0)

### Real Time Clock

Chip: ST M41T81  
 Backup Battery: Lithium, 48mAh

### Communication Interface

1 x Ethernet, 10/100Mbps  
 3 x RS232 w/ TXD, RXD, RTS, CTS, GND  
 1 x RS232 / RS485 (selectable)  
 RS232 Baud Rate: up to 921.6Kbps  
 1 x USB 2.0 Hosts w/ full speed of 12Mbps  
 Debug Port: RS-232(Tx/Rx) serial Console

**Relay Outputs :** 8 x N/O Contact  
 Rating : 1A @ 110VDC  
 Programmable Pulse output

**Digital Inputs :** 16 ch w/ Sensing = Power Supply  
 Opto-Coupler Isolation  
 4 x Groups Separated Common  
 SOE Accuracy : 1 msc.  
 Debounce Filtering

### Operating System

OS: Linux, Kernel 2.6.29  
 Boot Loader: U-Boot 1.3.4  
 File Systems: UBI, JFFS2, ETX2/ETX3,  
 VFAT/FAT, NFS

Utilities : ssh (secured shell) with sftp  
 syslog/klogd (system and kernel log)  
 telnet server  
 ftp server (vsftpd)  
 Web server ( lighttpd )  
 Open VPN  
 minicom

Drivers : for USB IEEE-802.11b/g WiFi adapter  
 (Ralink rt73usb, Ralink rt2500usb,  
 Realtek, RTL8187, ZyDAS zd1211rw)

### Supported Protocols

IEC 60870-5-101/104 Master & Slave  
 DNP 3.0 Serial / TCP Master & Slave  
 Modbus RTU / TCP Master & Slave  
 EDF HNZ RTU Master & Slave  
 ABB SPABus Master

**Power Input :** 36-160 VDC  
 maximum 6 Watt consumption  
 [optional 9-36VDC Power Input is available]

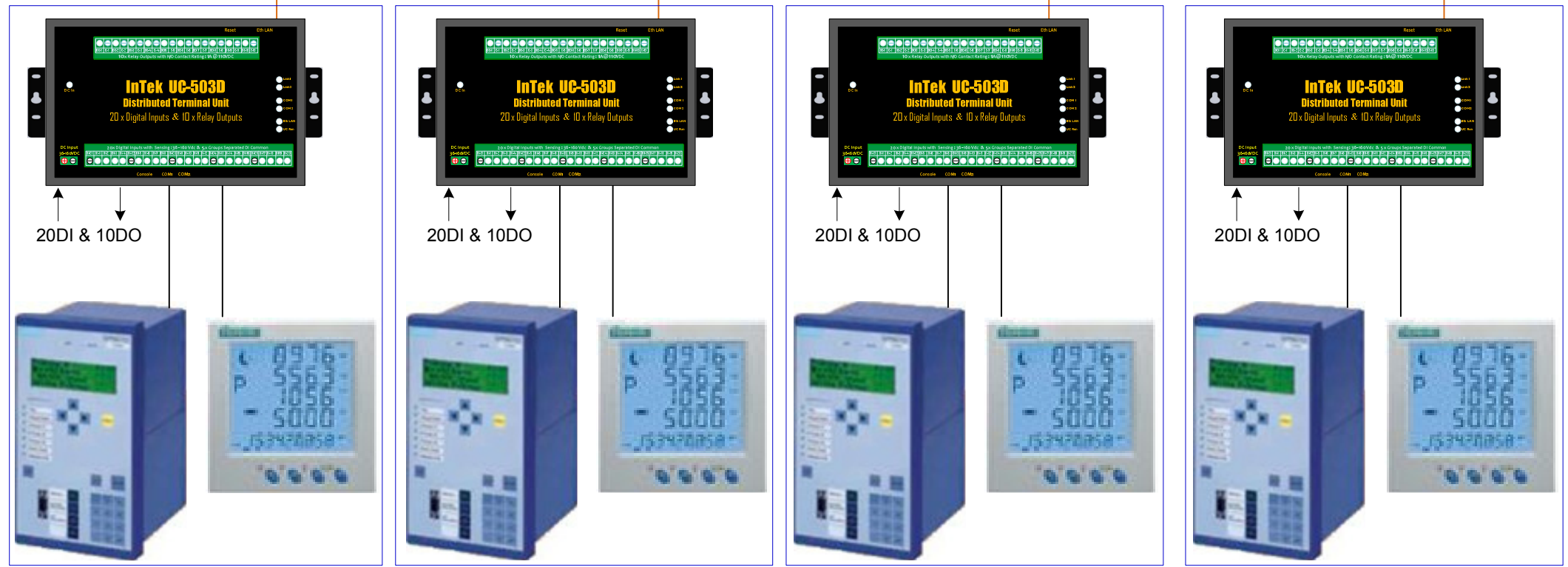
# RTU Concentrator with Distributed Architecture on Ethernet LAN

IEC 60870-5-104 /  
DNP 3.0 over TCP

IEC 60870-5-101 /  
DNP 3.0 serial



Ethernet TCP/IP w/ IEC 60870-5-104



# RTU Concentrator with Distributed Architecture on RS485 Serial

