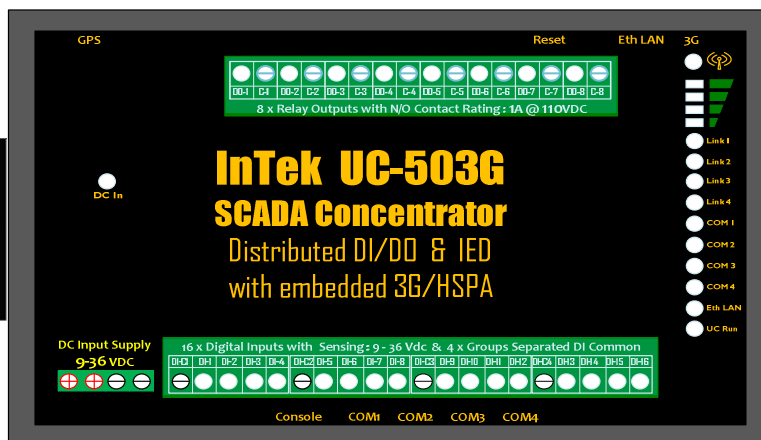


# InTek UC-503G

## Distributed Terminal Unit (DTU) Concentrator with 3G/3.5G

- . Substation Universal Concentrator w/ 3G
- . [ 16 DI @ 4 Groups & 8 DO/RO ]
- . IEC 60870-5-104 over 3G/3.5G
- . GPS for TimeSync and Position
- . 4 x LED Bars for 3G Signal Strength
- . 4 x LED Status for Protocol & Device Link
- . Logger to USB Flash and/or SD Memory
- . Power Supply: Type #A [ 9-36 VDC ]  
Type #B [ 36-160 VDC ]



HSPA+



3G

(5-bands)



GPRS/EDGE

(Class 12)



2G

(Quad-Band)

GPS



TCP/IP



### WCDMA/FDD GSM

Five Band UMTS: 800/850, 900, 1900, 2100 MHz

Quad-Band GSM: 850, 900, 1800, 1900 MHz

UMTS / HSPA+, 3GPP release 6 / 7

HSDPA/HSUPA data DL: 7.2Mbps, UL: 5.76Mbps

GSM / GPRS / EDGE, 3GPP release 99 / 4

SIM Application Toolkit, release 99

### GPS Features

A/GPS support: standalone, XTRA®, CP E911

Protocol: NMEA-0183 V2.3

**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

### Processor, Memory, and Storage

ATMEL 400MHz AT91SAM9G20 w/MMU

64MB SDRAM & 128MB NAND Flash

SD (secure digital) memory slot

**Real Time Clock:** Chip: ST M41T81

Backup Battery: Lithium 48mAh

### 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 : Web server ( lighttpd )

Open VPN

### Communication Interface

1 x Ethernet, 10/100Mbps

2 x RS232 w/ TXD, RXD, RTS, CTS, GND

1 x RS232 / RS485 (selectable)

1 x USB 2.0 Hosts w/ full speed of 12Mbps

### Supported Protocols

**IEC 60870-5-104 Slave via Open VPN**

IEC 60870-5-101/104 Master & Slave

DNP 3.0 Serial / TCP Master & Slave

Modbus RTU / TCP Master & Slave

EDF HNZ RTU Master & Slave

IEC 60870-5-103 Master

ABB SPABus Master

# RTU Concentrator with HSPA/3G/EDGE/GPRS and Distributed Architecture on Ethernet LAN

IEC 60870-5-104 over Ethernet TCP/IP ← IEC 60870-5-104 / over GSM TCP/IP



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



# RTU Concentrator with HSPA/3G/EDGE/GPRS and Distributed Architecture on RS485 Serial

