

METERLINK LOCAL DATA CONCENTRATOR (LDC)

SPECIFICATION

Hardware.

Main Controller.

SoC	DM&P (SiS) Vortex86 System on Chip CPU-166MHz Real Time Clock with battery Backup
Bus	PC/104 Standard Compliant
BIOS	AMI BIOS
Memory	Onboard 128MB SDRAM
VGA Video	AGP Rev. 2.0 Compliant Shared System Memory up to 64MB (default 8 MB) Support resolution up to 1,280 x 1,024 True Colours VGA and STN/DSTN/TFT Flat panel Interface Support
Watchdog	Software Programmable from 4ms to 1 Hour
LAN	Realtek 8100B10/100Mbps Ethernet Controller Half/Full Duplex capability
Audio	Fully Compliant with AC97 V2.1 Hardware DirectSound Accelerator
Flash Disk	MSTI EmbedDisk module (16MB and above) PQI DiskOnModule (16MB and above)
I/O Interface	Enhanced IDE Port x 1 FDD Port x 1 RS-232 Port x 3 RS-232/485 Port x 1 Parallel Port x 1 USB Port x 2 (Ver 1.1) 16-Bit GPIO Port x 1 10/100Mbps Ethernet Port x 1
Power Required	Single Voltage +5V @ 1.06A

Board Size 102 x 144mm (4.01 x 5.67 inches)

Temperature Operating -20 to +70 deg C
Storage -20 to +85 deg C

Humidity 10% to 90% RH (Non-condensing).

Enclosure IP65 W295 x H195 x D128

Real Time Clock Accuracy +/- 1min/month.

PLC Interface Controller

CPU Neuron PL3150 10 MHz micro controller.

Memory 32k EPROM.
 2k RAM.
 512 bytes EEPROM.

Peripherals 1 Serial Communications Port.

Watchdog Onboard Watchdog Timer.

Temperature Operating -20 to +60 deg C
Storage -20 to +85 deg C

Humidity 10% to 90% RH (Non-condensing).

Power Requirements 230VAC

Power Supplies

Switchmode

Output Voltage +5v 4.0A Maximum
 +12v 2.0A Maximum
 -12v 0.2A Maximum

Input Voltage 60 – 264 v AC

Input Frequency 50Hz

Over Voltage Protection On 5 volt output.

Temperature Operating -20 - +70 deg C
Storage -40 - +85 dec C.

Humidity 5% to 95% (Non-condensing)

EMC EN55022/11 level B conducted noise, level A radiated.

Immunity EN61000 -4 -2, 3, -4 -5 & 6 level 3.

Safety Approvals EN60950, IEC950, UL1950, VDE0805, CSA 22.2-234/950.

Switching Freq 65 kHz +/- 5kHz.

Leakage Current 0.4 mA at 230v AC.

Linear

Output Voltage +5v 500mA Maximum

Input Voltage 150 – 264 v AC

Input Frequency 47 – 440 Hz

Temperature Operating -20 - +70 deg C
Storage -40 - +85 dec C.

Humidity 5% to 95% (Non-condensing)

Leakage Current 0.4 mA at 230v AC.

Software.

Operating System DataLight ROM-DOS ver 6.2.

Capacity 3,000 Meters (Maximum) 250, 500, 1000, & 3000 meter options.
50 days Demand Data Retention (Maximum)
255 active tariffs.
5,000 (maximum) Pre-payment Buffer / Log. configurable
1, 2, or 3 PLC Communication Channels.

