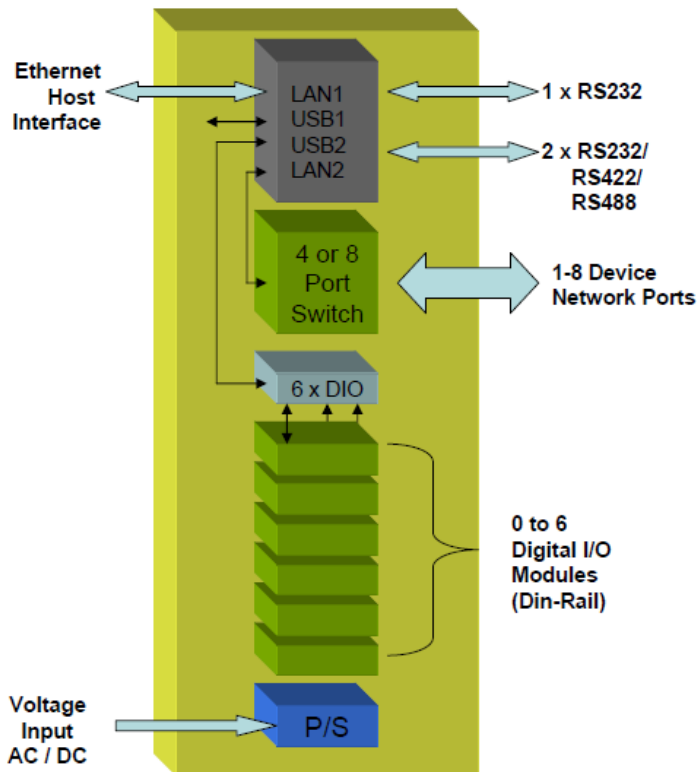# UMD Edge.Net Controller
UMD Model 502A Series

The *UMD Model 502 Edge.Net Controller* is an industrial computing platform. It is based on a range of DIN-rail mounted computers and peripheral I/O devices housed in an industrial metal enclosure.

The Controller is designed to interface to a range of Ethernet, USB or serial peripheral devices such as RFID- and barcode-readers. Up to 8 Ethernet based sensor devices can be supported via an internal Ethernet switch.

A separate LAN Ethernet port is provided for host network communications.

A 6 channel digital I/O port can be configured to support a range of DIN-rail mounted relay and sensor devices.

The Controller is available with Windows XP Embedded operating system or pre-loaded with a range of UMD's "Edge" software components including *UMD-Edge.Net Controller* software which is typically used to build *Inventory Control And Data Acquisition* systems (ICADA™) and Intelligent Sensor Networks.

UMD-Edge.Net Controller software is collection of industrial software modules which can be uniquely configured to match customer requirements. All operator user interfaces and configurations are performed via a web browser connected to the internal web server.

The *UMD Model 502 Edge.Net Controller* is designed to expand beyond the capabilities of conventional Programmable Logic Controllers (PLCs) where more sophisticated intelligent sensors and software are needed.

Features

- Industrial Controller Platform
- Industrial Housing
- DIN-rail based
- Microsoft© Windows XP Embedded (WES) Operating System
- Supports UMD Edge.Net software
- Supports Up to 8 Ethernet devices
- I/O includes 2 x USB, 3 x RS232/422/485 ports
- 6 Channel Digital I/O with support for DIN-rail mount I/O modules
- Assembled and supported by Unique Micro Design (UMD)

Specifications

Mechanical		
	Height	400 mm
	Width	300 mm
	Depth	200 mm
	Lock	2
	Material	Mild Steel 1mm, Power Coated
	Color	RAL 7035 Fine Texture
	Weight	10 Kg (approx)

Environmental		
	Operating Temperature	-19 to 60 deg C
	Operating Humidity	20-95% (non condensing)
	Rating	IP55

Power		
	Input Voltage	Option A: 240 Vac Option D: 12-36 Vdc
	Power Consumption	15-20 W (typical)

Controller		
	Type	UNO-1150G (DIN Mount)
	CPU	AMD Geode LX 800 / 500MHz
	Memory	256MB DDR SDRAM
	Storage	8GB Compact Flash
	Operating System	Windows XP Embedded Standard
	Keyboard / Mouse	1 x PS/2
	Display	DB15 VGA Connector (1024x768)
	Audio	Line IN, Line OUT

I/O Interface		
	Serial Ports	1 x RS232 (DB9) 2 x RS232/422/485 (DB9)
	LAN	1 x 10/100 Base-T, RJ-45 (Device Network) 1 x 10/100 Base-T, RJ-45 (Host)
	USB	2 x USB
	Modules	Via DIN mountable modules

Ordering Details

UMD Model 502A Edge.Net Controller Configuration Details							
M502A							UMD Edge.Net Controller.
	Device Network Options						
	1						1 port
	4						4 port
	8						8 port
		Digital I/O Option					
		00					Not installed
		XY					X = Inputs, Y= Ouputs (X+Y=6)
			Preconfigured I/O Modules				
			00				Not installed
			24				24 V AC/DC Relay
			48				48 V AC/DC Relay
			AC				240 V ac Relay
				Hardware Option			
				00			Standard Options
					Power Options		
					A		AC Input, 240 Vac
					D		DC Input, 12-36 Vdc
						Software	
						XP	Windows XP embedded Standard only
						LI	Linux only
						01	UMD Edge.Net