



Main

Range of product	Modicon Momentum automation platform
Product or component type	Processor
Product compatibility	Modicon STB I/O
Integrated connection type	Ethernet USB port

Complementary

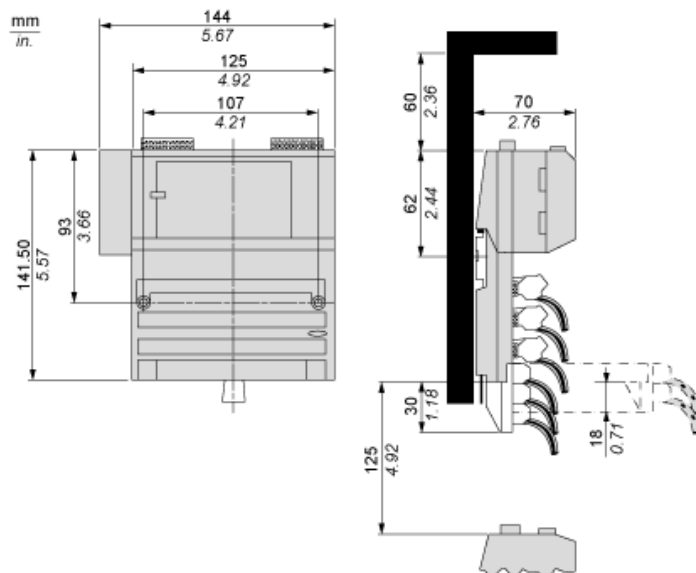
Concept	Transparent Ready class B
Web services	Ethernet statistics Home pages CPU status Properties Bandwidth monitoring
Software designation	Unity Pro
Communication service	Modbus TCP I/O Scanner and Messaging Global Data, 2200 I/O message per second Modbus messaging 125 words, 200 I/O message per second
Processor name	Spear 320s
Word length	32 bit
Supply voltage limits	4.75...5.25 V
Clock frequency	333 MHz
Topology	Star Modbus TCP Multidrop Modbus
Communication port protocol	Modbus TCP Ethernet 1 RJ45 10/100 Mbps twisted shielded pairs cable CAT 5E UTP Modbus RS485/RS232 1 RJ45 19200 bps 2-wire
Method of access	Master/Slave Client/Server
Control parameter	CRC-16 for Modbus CRC-32 for Modbus TCP/IP
Addressing	Unique IEEE global address Modbus TCP 1...247 Modbus
Fail state	Safe I/O mode
Memory description	Program memory LL984 3584 kB Program memory IEC 3584 kB
Register words	26048
I/O limit processor capacity	2048 inputs/2048 outputs
Number of devices	32 Modbus
Exact time for 1 K instruction	83 ns
Local signalling	1 LED green status of Ethernet network (ETH STS) 1 LED green data rate (ETH LINK) 1 LED green data rate (ETH 100) 1 LED yellow channel 0 operating (CH0) 1 LED red I/O module fault (I/O) 1 LED red processor or system fault (ERR) 1 LED green processor running (RUN)
Marking	CE
Current consumption	500 mA at 5 V DC

Module format	Standard
Product mounting	35 mm symmetrical DIN rail
Height	60.6 mm
Width	144 mm
Depth	53.47 mm
Product weight	0.163 kg

Environment

Material	Lexan
Dielectric strength	5000 V for 1 minute Ethernet 0 V not isolated RS485/RS232
Product certifications	C-Tick FM
Standards	CSA C22.2 No 142 EN/IEC 61131-2 UL 508
IP degree of protection	IP20
Shock resistance	15 gn during 11 ms sinusoidal vibrations
Resistance to electrostatic discharge	8 kV on air conforming to[pace]EN/IEC 61000-4-2 6 kV contact conforming to[pace]IACS E10 6 kV contact conforming to[pace]EN/IEC 61131-2 zone B
Resistance to electromagnetic fields	15 V/m 80...2700 MHz conforming to[pace]EN/IEC 61000-4-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	5...96 %
Operating altitude	<= 2000 m

Processor and Option Adapter on a Typical Base



Mounting on a Wall

