## SCADAPack 32 Smart RTU





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Compared to the SCADAPack 300 platform, the SCADAPack 32 is a higher performance Smart RTU built to meet the demands of larger applications including support for up to 10 gas flow runs. This product offers built-in Ethernet, four serial ports, 8 Mb of SDRAM, an integrated power supply, and a wide range of analog and digital I/O options. Featuring industry-standard Modbus and DNP3 serial protocols, and Modbus TCP and UDP-based Ethernet protocols, the SCADAPack 32 can be programmed locally or remotely through a choice of flexible programming languages. As with all SCADAPack products the SCADAPack 32 is based on a multiprocessor architecture with a coprocessor used for handling on-board input/output channels.

>	P4A, integrated 56O4 I/O board
Controller	
Processor	Hitachi SH-3 32-bit CMOS microcontroller, 120MHz clock, integrated watchdog timer
Memory	8 Mb SDRAM, 4 Mb FLASH, 1 Mb CMOS RAM
Non Volatile RAM	CMOS RAM with lithium battery retains contents for 2 years with no power
1/0	
Analog Inputs	8, user selectable 0 - 10V (15 bit) or 0 - 20mA (14 bit)     1, 0 - 32.678V (10 bit)
Analog Outputs	2 with optional 5305 analog output module, output range 0-20mA
Digital Inputs	4 on controller board - 3 Digital Input/Counter, 1 Interrupt with optical isolation
Digital Outputs	1, 30V / 60mA (used as status output)
Digital I/O (5604 I/O board)	32 configurable as input or output (1 Amp DC max output / dry contact input)
Communications	
Serial Port COM1	Configurable RS-232 or RS-485, 2 wire half duplex or 4 wire full/half duplex
Serial Ports COM2, COM4	RS-232, DTE, 8 pin modular jack, full or half duplex with RTS/CTS control     Implemented Td, Rd, CTS, RTS, DCD, DTR, +5V
Serial Port COM3	Located on 5604 I/O module. Same specifications as COM2 and COM4
Baud Rates COM1, COM2, COM4	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200
Baud Rate COM3	1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200
Serial Protocols	Modbus RTU, Modbus ASCII, DNP3, DF1, PPP
Ethernet Port	RJ45, 10BaseT
Network Protocols	IP: ARP, TCP, TFTP, UDP, ICMP
Ethernet Port Protocols	Modbus TCP, Modbus RTU in UDP, Modbus ASCII in UDP, DNP in TCP, DNP in UDP
Wireless <sup>1</sup>	Spread spectrum radio at 900MHz² and 2.4GHz²
General	
I/O Terminations	6, 8, 9 and 10 pole, removable terminal blocks, 12 to 22 AWG, 15A contacts
Dimensions	8.40 inch (213mm) wide, 6.13 inch (155mm) high, 2.80 inch (72mm) deep
Packaging	Corrosion resistant zinc plated steel with black enamel paint
Environment	5% RH to 95% RH, non-condensing, -40°C (-40°F) to 70°C (158°F)
Power Input	11 - 30 VDC, 4.3W typical (10.8W full I/O capacity in use)
Warranty	3 years on parts and labor
Certifications	
Hazardous Locations North America	Suitable for use in Class I, Division 2, Groups A, B, C and D Hazardous Locations. Temperature Code T4 CSA certified to the requirements of:  CSA Std. C22.2 No. 213-M1987 - Hazardous Locations  UL Std. No. 1604 - Hazardous (Classified) Locations
Safety	CSA ( <sub>C</sub> CSA <sub>US</sub> ) certified to the requirements of: CSA C22.2 No. 142-M1987 and UL508. (Process Control Equipment, Industrial Control Equipment) UL ( <sub>C</sub> UL <sub>US</sub> ) listed: UL508 (Industrial Control Equipment)

- Available only with optional integrated wireless modules or with stand-alone wireless modules. Not applicable in all countries.

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>	P4, integrated 5601A I/O board
Controller	
Processor	Hitachi SH-3 32-bit CMOS microcontroller, 120MHz clock, integrated watchdog timer
Memory	8 Mb SDRAM, 4 Mb FLASH, 1 Mb CMOS RAM
Non Volatile RAM	CMOS RAM with lithium battery retains contents for 2 years with no power
1/0	
Analog Inputs	8, user selectable 0 - 5V (15 bit) or 0 - 20mA (14 bit)
Analog Outputs	2 with optional 5303 analog output module, output range 0-20mA
Digital Inputs	<ul> <li>4 on controller board - 3 Digital Input/Counter, 1 Interrupt with optical isolation</li> <li>16 on 5601A I/O module - 6.5mA typical at 24V and 3.5mA typical at 115V</li> </ul>
Digital Outputs	<ul> <li>1 on controller board, 30V, 60mA (used as status output)</li> <li>12 on 5601A I/O module - Sealed mechanical relay:</li> <li>0.4A at 125 Vrms, 2A at 30V resistive loads</li> <li>1.0A at 30V, 0.2A at 125Vrms inductive load with pf=0.4, L/R=7ms</li> <li>250Vrms, 220V maximum operating voltage</li> </ul>
Communications	
Serial Port COM1	Configurable RS-232 or RS-485, 2 wire half duplex or 4 wire full/half duplex
Serial Ports COM2, COM4	RS-232, DTE, 8 pin modular jack, full or half duplex with RTS/CTS control. Implemented Td, Rd, CTS, RTS, DCD, DTR, +5V
Serial Port COM3	Located on 5601A I/O module. Same specifications as COM2 and COM4
Baud Rates COM1, COM2, COM4	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200
Baud Rate COM3	1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200
Serial Protocols	Modbus RTU, Modbus ASCII, DNP3, DF1, PPP
Ethernet Port	10BaseT, RJ45
Network Protocols	IP:ARP, TCP, TFTP, UDP, ICMP
Ethernet Port Protocols	Modbus TCP, Modbus RTU in UDP, Modbus ASCII in UDP, DNP in TCP, DNP in UDP
Wireless <sup>1</sup>	Spread spectrum radio at 900MHz² and 2.4 GHz²
General	
I/O Terminations	6, 8, 9 and 10 pole, removable terminal blocks, 12 to 22 AWG, 15A contacts
Dimensions	8.40 inch (213mm) wide, 6.13 inch (155mm) high, 2.80 inch (72mm) deep
Packaging	Corrosion resistant zinc plated steel with black enamel paint
Environment	5% RH to 95% RH, non-condensing, –40°C (–40°F) to 70°C (158°F)
Power Input:	11 - 30 VDC, 3.5W typical all relays off, 6.5W typical all relays on
Warranty	3 years on parts and labor
Certifications	
Hazardous Locations North America	Suitable for use in Class I, Division 2, Groups A, B, C and D Hazardous Locations. Temperature Code T4 CSA certified to the requirements of:  CSA Std. C22.2 No. 213-M1987 - Hazardous Locations  UL Std. No. 1604 - Hazardous (Classified) Locations
Safety	CSA (cCSA <sub>US</sub> ) certified to the requirements of: CSA C22.2 No. 142-M1987 and UL508. (Process Control Equipment, Industrial Control Equipment) UL (cUL <sub>US</sub> ) listed: UL508 (Industrial Control Equipment)

- 1 Available only with optional integrated wireless modules or with stand-alone wireless modules.2 Not applicable in all countries.

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## Product Data Sheet SCADAPack 32 **Specifications**

	P4B, integrated 5606 I/O board
Controller	
Processor	Hitachi SH-3 32-bit CMOS microcontroller, 120MHz clock, integrated watchdog timer
Memory	8 Mb SDRAM, 4 Mb FLASH, 1 Mb CMOS RAM
Non Volatile RAM	CMOS RAM with lithium battery retains contents for 2 years with no power
1/0	
Analog Inputs	8, single-ended, software selectable 0-5V / 0-10 V or 0-20mA / 4-20mA (15 bit resolution)
Analog Outputs	2 with optional 5305 analog output module, output range 0-20mA
Digital Inputs	4 on controller board - 3 Digital Input/Counter, 1 Interrupt with optical isolation, 32 on 5606 I/O module:  • 0.67 mA typical at 24V on the 12/24V range  • 0.37 mA typical at 48V on the 48V range  • 0.35 mA typical at 120V on the 115/125V range  • 0.35 mA typical at 240V on the 240V range
Digital Outputs	1 on controller board, 30V, 60mA (used as status output)     16 relay outputs on 5606 I/O module - dry contact or DC solid state:     Dry contact rating: 3A, 30VDC or 240VAC (Resistive)     DC solid state rating: 3A, 60 VDC
Communications	
Serial Port COM1	Configurable RS-232 or RS-485, 2 wire half duplex or 4 wire full/half duplex
Serial Ports COM2, COM4	RS-232, DTE, 8 pin modular jack, full or half duplex with RTS/CTS control Implemented Td, Rd, CTS, RTS, DCD, DTR, +5V
Baud Rates COM1, COM2, COM4	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200
Serial Protocols	Modbus RTU, Modbus ASCII, DNP3, DF1, PPP
Ethernet Port	RJ45, 10BaseT
Network Protocols	IP: ARP, TCP, TFTP, UDP, ICMP
Ethernet Port Protocols	Modbus TCP, Modbus RTU in UDP, Modbus ASCII in UDP, DNP in TCP, DNP in UDP
Wireless <sup>1</sup>	Spread spectrum radio at 900MHz² and 2.4 GHz²
General	
I/O Terminations	5, 6, 8, 9 and 10 pole, removable terminal blocks, 12 to 22 AWG, 15A contacts
Dimensions	8.40 inch (213mm) wide, 6.48 inch (164mm) high, 2.80 inch (72mm) deep
Packaging	Corrosion resistant zinc plated steel with black enamel paint
Environment	5% RH to 95% RH, non-condensing, -40°C (-40°F) to 70°C (158°F)
Power Input:	11 - 30 VDC, 4.3W typical (10.8W full I/O capacity in use)
Warranty	3 years on parts and labor
Certifications	
Hazardous Locations North America	Suitable for use in Class I, Division 2, Groups A, B, C and D Hazardous Locations. Temperature Code T4 UL Listed and CSA certified to the following standards:  CSA Std. C22.2 No. 213-M1987 - Hazardous Locations  UL Std. No. 1604 - Hazardous (Classified) Locations
Hazardous Locations Europe	Model "5606 SSR, 24DI version only" ATEX II 3G, Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2) Does not include Wireless versions.
Hazardous Locations	Model "5606 SSR version only" IECEx, Ex nA IIC T4 per IEC 60079-15, protection type n (Zone 2) Does not include Wireless ver

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