# SCADAPack 330 | 334
## Smart RTU




Schneider Electric

Built on the proven SCADAPack 300 platform, the SCADAPack 330 and 334 feature high-performance 32-bit processing, high-speed LAN, serial and USB communications, integrated power supply, advanced power management, and a wide range of digital and analog I/O in a cost-effective, compact Smart RTU. Featuring industry-standard Modbus and DNP3 serial protocols, and Modbus TCP and UDP-based Ethernet protocols, the SCADAPack 330 / 334 can be programmed locally or remotely through a choice of flexible programming languages.

Additionally, this product features a USB host port for data logging to USB mass storage devices, and offers a smaller footprint, enabling compact mounting enclosures for applications where space is at a premium. Note that the SCADAPack 334 has the same I/O offering as the SCADAPack 314 but includes an Ethernet and USB Host port.

# Product Data Sheet SCADAPack 330 | 334
# Specifications

| > | P330: 5210 controller board only |
|---|---|
| **Controller** | |
| Processors | • CPU: 32-bit ARM7 microcontroller, 32 MHz clock, integrated watchdog timer<br>• Microcontroller co-processor, 20 MHz clock |
| Memory | 16MB FLASH ROM, 4MB CMOS RAM, 4kB EEPROM |
| Non-Volatile RAM | CMOS SRAM with lithium battery retains contents for 2 years with no power |
| Datalog Capacity | 465k words |
| **I/O** | |
| Counter Inputs | • 1, 0-10Hz or 0-5kHz (dry contact)<br>• 2, 0-10kHz (turbine or dry contact) |
| **Communications** | |
| Serial Ports COM1, COM2 | • RS-232 port, 8-pin modular RJ45 jack, full or half duplex, or<br>• RS-485 port, 2-wire, half duplex |
| Serial Port COM3 | • RS-232 port, 8-pin modular RJ45 jack, full or half duplex with RTS/CTS control and operator interface power control |
| Baud Rates | 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 |
| Serial Protocols | Modbus RTU, Modbus ASCII, DNP3, DF1 |
| Serial Protocol Modes | Slave, Master, Master/Slave, Store and Forward |
| Ethernet Port | RJ45, 10/100BaseT |
| Ethernet Protocols | Modbus TCP, Modbus RTU in UDP, Modbus ASCII in UDP, DNP in TCP, DNP in UDP |
| Network Protocols | IP, ARP, TCP, TFTP, UDP and ICMP |
| USB Host Port | USB 2.0 compliant “A”-type receptacle, provides up to 100mA at 5V |
| USB Peripheral Port | USB 2.0 compliant “B”-type receptacle |
| Wireless[1] | Spread spectrum radio at 900MHz[2] and 2.4GHz[2] |
| **General** | |
| I/O Terminations | 6-pole removable terminal block, 12 to 22AWG, 15A contacts |
| Dimensions | 5.65 inch (144mm) wide, 5.00 inch (127mm) high, 1.80 inch (45mm) deep |
| Packaging | Corrosion resistant zinc-plated steel with black enamel paint |
| Environment | 5% RH to 95%, non-condensing, –40°C (–40°F) to 70°C (158°F) |
| Power Input | • 11 - 30VDC, 15mW at 12V during Sleep<br>• 500mW at 12V during normal operation. 32MHz, LEDs off, no expansion, LAN and USB disabled<br>• 300mW at 12V during reduced power mode operation. 12MHz, LEDs off, no expansion, LAN and USB disabled<br>• Add 800mW when enabling LAN<br>• Add 190mW when enabling USB<br>• Add 25 to 100mW when enabling the LEDs<br>• 8.5W at 24V maximum, 5V supply fully loaded |
| 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:<br>• CSA Std. C22.2 No. 213-M1987 - Hazardous Locations.<br>• UL Std. No. 1604 - Hazardous (Classified) Locations. |
| Hazardous Locations - Europe | ATEX II 3G, Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2). Does not include Wireless versions. |
| Hazardous Locations | IECEx, Ex nA IIC T4 per IEC 60079-15, protection type n (Zone 2) Does not include Wireless versions. |

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

Disclaimer: Schneider Electric reserves the right to change product specifications. For more information visit www.schneider-electric.com.

## P334: 5210 controller board and integrated 5607 I/O board

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|---|---|
| **Controller** | |
| Processors | • CPU: 32-bit ARM7 microcontroller, 32 MHz clock, integrated watchdog timer<br>• Microcontroller co-processor, 20 MHz clock |
| Memory | 16MB FLASH ROM, 4MB CMOS RAM, 4kB EEPROM |
| Non-Volalite RAM | CMOS SRAM with lithium battery retains contents for 2 years with no power |
| Datalog Capacity | 465k words |
| **I/O** | |
| Analog Inputs | 8, 0-20/4-20mA / 0-5/0-10V (15-bit) software configurable |
| Analog Outputs | • Standard: None<br>• 2, 0-20/4-20mA (12-bit) with optional 5305 on 5607 I/O board |
| Digital I/O | • 16, 12/24V, 48V, 115/125V, 240V digital inputs<br>• 10 relay outputs: dry contact or DC solid state, dry contact rating: 3A, 30VDC or 240VAC (resistive), DC solid state rating: 3A, 60 VDC |
| Counter Inputs | 1, 0-10Hz or 0-5kHz (dry contact); 2, 0-10kHz (turbine or dry contact) |
| **Communications** | |
| Serial Ports COM1, COM2 | • RS-232 port, 8-pin modular RJ45 jack, full or half duplex, or<br>• RS-485 port, 2-wire, half duplex |
| Serial Port COM3 | RS-232 port, 8-pin modular RJ45 jack, full or half duplex with RTS/CTS control and operator interface power control |
| Baud Rates | 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 |
| Serial Protocols | Modbus RTU, Modbus ASCII, DNP3, DF1 |
| Serial Protocol Modes | Slave, Master, Master/Slave, Store and Forward |
| Ethernet Port | RJ45, 10/100BaseT |
| Ethernet Protocols | Modbus TCP, Modbus RTU in UDP, Modbus ASCII in UDP, DNP in TCP, DNP in UDP |
| Network Protocols | IP, ARP, TCP, TFTP, UDP and ICMP |
| USB Host Port | USB 2.0 compliant “A”-type receptacle, provides up to 100mA at 5V |
| USB Peripheral Port | USB 2.0 compliant “B”-type receptacle |
| Wireless[1] | Spread spectrum radio at 900MHz[2] and 2.4GHz[2] |
| **General** | |
| I/O Terminations | 5, 6 and 9-pole removable terminal blocks, 12 to 22AWG, 15A contacts |
| Dimensions | 5.65 inch (144mm) wide, 6.50 inch (165mm) high, 2.80 inch (72mm) deep |
| Packaging | Corrosion resistant zinc-plated steel with black enamel paint |
| Environment | 5% RH to 95%, non-condensing, –40°C (–40°F) to 70°C (158°F) |
| **Power** | |
| 5210 Controller Board | • 11 - 30VDC, 15mW at 12 V during Sleep<br>• 500mW at 12V during normal operation. 32MHz, LEDs off, no expansion, LAN and USB disabled<br>• 300mW at 12V during reduced power mode operation. 12MHz, LEDs off, no expansion, LAN and USB disabled<br>• Add 800mW when enabling LAN<br>• Add 190mW when enabling USB<br>• Add 25 to 100mW when enabling the LEDs<br>• 8.5W at 24V maximum, 5V supply fully loaded |
| 5607 I/O Module | • 11 - 30VDC, 10.3mA plus analog outputs<br>• 325mA (max.) at 5V required from 5210 controller board |
| 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:<br>• CSA Std. C22.2 No. 213-M1987 - Hazardous Locations.<br>• UL Std. No. 1604 - Hazardous (Classified) Locations. |
| Hazardous Locations - Europe | ATEX II 3G, Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2). Does not include Wireless versions. |
| Hazardous Locations | IECEx, Ex nA IIC T4 per IEC 60079-15, protection type n (Zone 2) Does not include Wireless versions. |

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 330 | 334
## Model Code

| | |
|---|---|
| | TBUP334-1A20-AB00 represents a sample code for a SCADAPack334, 5607 I/O board and Modbus protocol emulation |
| **Model** | **Select: Controller** |
| TBUP330 | SCADAPack 330, 32 Bit controller, 3 Accumulators |
| TBUP334 | SCADAPack 334, with Model 5607 I/O board, comes with above I/O plus 8 Analog I/P, 16 Digital I/P and 10 Digital O/P |
| **Code** | **Select: Future Option** |
| 1 | None |
| **Code** | **Select: Gas Flow Run-Time Option** |
| A | None |
| | **Flow Computer Runs** |
| G | 2 Run Gas Flow |
| F | 4 Run Gas Flow |
| V | 2 Run Gas Flow - Gas Transmission Version (Requires Realflo 6.72+) |
| W | 4 Run Gas Flow - Gas Transmission Version (Requires Realflo 6.72+) |
| **Code** | **Select: Protocol Option** |
| 2 | Modbus and DNP 3.0 (Level 2) protocol emulation |
| **Code** | **Select: Programming Environment** |
| 0 | Telepace Ladder Logic and C Language firmware loaded - IEC enabled (Programming Tools sold separately) |
| 1 | IEC 61131-3 and C Language firmware loaded - Telepace enabled (Programming Tools sold separately) |
| **Code** | **Select: Analog Inputs** |
| A | P330: None – P334: 8 selectable as 0-20, 4-20mA, 0-5V or 0-10V |
| **Code** | **Select: Digital Inputs/Outputs** |
| A | P330 - None |
| B | P334 - 16 DI (12/24V) and 10 dry contact relays |
| D | P334 - 16 DI (120V) and 10 dry conta ct relays |
| F | P334 - 16 DI (12/24V) and 10 DC solid state relays, ATEX and IECEx certification |
| H | P334 - 16 DI (120V) and 10 solid state relays |
| **Code** | **Select: Analog Outputs** |
| 0 | None |
| 1 | P334 only - 2 channel analog output option, 0 - 20mA |

Model codes continue on next page

# Product Data Sheet SCADAPack 330 | 334
## Model Code

| | TBUP334-1A20-AB00 represents a sample code for a SCADAPack334, 5607 I/O board and Modbus protocol emulation |
|---|---|
| **Code** | **Select: Integrated Communication Interfaces** |
| 0 | None |
| | **FreeWave & MDS Radios (requires one RS232 port)** |
| 1 | 900Mhz FreeWave Spread Spectrum Radio |
| A | 900MHz MDS Spread Spectrum Radio |
| | **Trio Radios - 900MHz (requires one RS232 port)** |
| B | 900MHz Trio Spread Spectrum Radio with encryption, 902-928MHz (FCC / IC) |
| C | 900MHz Trio Spread Spectrum Radio with encryption, 915-928MHz (AUS) |
| D | 900MHz Trio Spread Spectrum Radio, 915-928MHz (BRAZIL) |
| E | 900MHz Trio Spread Spectrum Radio, 921-928MHz (NZ) |
| | **Trio Radios - 2.4GHz (requires one RS232 port)** |
| J | 2.4GHz Trio Spread Spectrum Radio, ETSI/100mW, ATEX (EUROPE) |
| K | 2.4GHz Trio Spread Spectrum Radio with Encryption, 500mW (CANADA, USA & AUSTRALIA) |
| L | 2.4GHz Trio Spread Spectrum Radio, 500mW (OUTSIDE OF EUROPE, CANADA, USA & AUSTRALIA) |