






RIGHTWON® - 2019 CATALOG

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
Z1 - RightWON Plus - Control Units			
<p>RightWON Plus units are rugged, compact and programmable smart substation automation controllers that combine key functions for the Energy, Oil & Gas and Industry sectors:</p> <ul style="list-style-type: none"> ▶ Fully IEC 61131-3 compliant PLC: Five programming languages: IL, ST, FBD, LD, SFC, local or remote programming ▶ Protocol Management: IEC 61850, DNP3, IEC 60870, Modbus, etc. (Please refer to section 3 - RightWON - Communication Protocols to see all protocols available) ▶ Optional Human-Machine Interface : Web operating interface, display and monitor remote facilities, pure Web graphic synoptic with PC Editor (Please refer to section 26 - RightWON Plus - Optional Software) ▶ Management and Monitoring Functions: Diagnose and anticipate failures, event journals, alarms and trending; event notifications by email, SMS and pager <p>RightWON Plus units are field-upgradeable and communicate through I/Os, LAN, WAN, serial and Telecom ports, including most variations of wireless telecommunication standards. All units use a single Power 24 Vdc nominal, input 10 to 30 Vdc, 9W Max. However a compatible, optional 85-260 Vac, 90-375 Vdc, 15W power unit can be supplied separately. Thanks to its removable mounting ears, the RightWON Plus can be table mounted, vertical panel mounted or front panel mounted. The RightWON Plus units are suitable for up to 2,000/2,500 variables + tags projects. For unlimited data management, please inquire.</p>			
<p>RightWON Plus Type-0, -40 °C to +70 °C</p>	<p>RWR030000</p>	<p>The compact RightWON Plus Type-0 doesn't include any I/O and has the following characteristics:</p> <ul style="list-style-type: none"> ▶ Power supply: 24 Vdc nominal, input 10 Vdc to 30 Vdc, 9 W max. ▶ Two (2) RS232/RS485 serial ports + two (2) 100Base-T Ethernet ports. Optional serial port isolation available. For more information, please consult Section 22/RightWON Plus/Isolation Ports ▶ External GPS-PPS synchronization input ▶ Built-in Programmable Logic Controller (PLC) IEC 61131-3 compliant, remote management capabilities, DNP3 Secure V5, DNP3/DNP3 Secure V2 master/slave and Modbus master/slave protocol compliant. Other protocols are available. For more information, please refer to Section 3/RightWON/Communication Protocols ▶ Optional web-based graphic HMI with PC Editor available, please refer to Section 23/RightWON Plus/Modem Options ▶ Telecommunication modem options are available. For more information, please refer to section 26 - RightWON Plus - Optional Software ▶ Cables to be supplied/ordered separately (refer to 7 - RightWON - Accessories and Options) <p>To order the RightWON Plus unit, please use our Smart Coding form that specifies the product's exact configuration based on each customer's requirements. For more information, please consult the document named RWR0x0000-SC-en on VIZIMAX's web site.</p>	
<p>RightWON Plus Type-1, -40 °C to +70 °C</p>	<p>RWR010000</p>	<p>The compact RightWON Plus Type-1 includes one (1) I/O board and has the following characteristics:</p> <ul style="list-style-type: none"> ▶ 16 isolated digital inputs (12-24 Vdc nominal, optional 125 Vdc) with 1 ms time stamping, assigned as alarm point, status point or pulse accumulator. ▶ 8 isolated digital outputs (max 250 Vac/dc). Up to 6 optional high speed I/O static outputs 10 A available. For more information, please consult Section 24/RightWON Plus/High Speed Output Options ▶ 4 range selectable analog inputs (±2.5 Vdc, 0 Vdc to 5 Vdc, 10 Vac, 0 Vdc to 30 Vdc, 250 Vdc, 150 Vac, 0 mA to 20 mA, 4 mA to 20 mA and ±10 mA) for measuring ac or dc signals ▶ Power supply: 24 Vdc nominal, input 10 Vdc to 30 Vdc, 9 W max ▶ Two (2) RS232/RS485 serial ports + two (2) 100Base-T Ethernet ports. Optional serial port isolation available. For more information, please consult Section 22/RightWON Plus/Isolation Ports ▶ External GPS-PPS synchronization input ▶ Built-in programmable logic controller (PLC) IEC 61131-3 compliant, remote management capabilities, DNP3 Secure V5, DNP3/DNP3 Secure V2 master/slave and Modbus master/slave protocol compliant. Other protocols are available, for more information, please refer to Section 3/RightWON/Communication Protocols ▶ Optional web-based graphic HMI with PC Editor available, please refer to Section 23/RightWON Plus/Modem Options ▶ Telecommunication modem options are available. For more information, please refer to Section 23/RightWON Plus/Modem Options ▶ Cables to be supplied/ordered separately (refer to 7 - RightWON - Accessories and Options) <p>To order the RightWON Plus unit, please use our Smart Coding form that specifies the product's exact configuration based on the customer's requirements. For more information, please consult the document named RWR0x0000-SC-en on VIZIMAX web site.</p>	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
RightWON Plus Type-2 , -40 °C to +70 °C	RWR020000	<p>The compact RightWON Plus Type-2 includes two (2) I/O boards and has the following characteristics:</p> <ul style="list-style-type: none"> ▶ 32 isolated digital inputs (12-24 Vdc nominal, optional 125 Vdc) with 1 ms time stamping, assigned as alarm points, status points or pulse accumulators ▶ 16 isolated digital outputs (max 250 Vac/dc). Up to 12 optional high speed I/O static outputs 10 A available. For more information, please consult Section 24/RightWON Plus/High Speed Output Options ▶ 8 range selectable analog inputs (±2.5 Vdc, 0 Vdc to 5 Vdc, 10 Vac, 0 Vdc to 30 Vdc, 250 Vdc, 150 Vac, 0 mA to 20 mA, 4 mA to 20 mA and ±10 mA) for measuring ac or dc signals ▶ Power supply: 24 Vdc nominal, input 10 Vdc to 30 Vdc, 9 W max ▶ Two (2) RS232/RS485 serial ports + two (2) 100Base-T Ethernet ports. Optional serial port isolation available. For more information, please consult Section 22/RightWON Plus/Isolation Ports ▶ External GPS-PPS synchronization input ▶ Built-in Programmable Logic Controller (PLC) IEC 61131-3 compliant, remote management capabilities, DNP3 Secure V5, DNP3/DNP3 Secure V2 master/slave and Modbus master/slave protocol compliant. Other protocols are available. For more information, please consult Section 3/RightWON/Communication Protocols ▶ Optional web-based graphic HMI with PC Editor available, please refer to Section 23/RightWON Plus/Modem Options ▶ Telecommunication modem options available. For more information, please consult Section 21/RightWON Plus/Options. <p>▶ Cables to be supplied/ordered separately (refer to 7 - RightWON - Accessories and Options)</p> <p>To order the RightWON Plus unit, please use our Smart Coding form that specifies the product's exact configuration based on the customer's requirements. For more information, please consult the document named RWR0x0000-SC-en on VIZIMAX web site.</p>	



DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
26 - RightWON Plus - Optional Software			
Web-based graphic HMI for RightWON Plus units with PC Editor	RWM000900	<p>The Optional Web-Based HMI Package for RightWON Plus Type-0, Type-1 or Type-2 units has the following characteristics:</p> <ul style="list-style-type: none"> ▶ Allows web-based SCADA-like, human-machine interface delivered by RightWON Plus units ▶ Allows convenient operation and monitoring on local or remote PCs and terminals ▶ User-friendly PC editor with comprehensive set of controls and graphic elements. 	



DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
22 - RightWON Plus - Isolation ports			
The following manufacturing options are suitable for the RightWON Plus units (RWR 010000, RWR 020000, RWR 030000) and must be ordered at the same time as the RightWON Plus units.			
Serial COM1 and COM 2 Isolation options for RightWON Plus units	RWM000100	<p>COM1 and COM2 - 2000 Vac isolation for RS232/RS485 serial ports for RightWON Plus units. N.B. – This manufacturing option has to be ordered at the same time as the RightWON Plus units.</p>	




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23 - RightWON Plus - Modem Options			
<p>The RightWON Plus Modem options feature state-of-the-art communication and networking capabilities in compact and embeddable hardware that withstand even the most extreme operation conditions. Most Modem options are delivered in multiple versions that accommodate North American, European and other foreign countries telecommunication standards. The RightWON Plus unit can manage one Modem for various networks and remote management needs (ie: standalone unit secured links normal/backup telecom mixed media). Please refer to the related technical manuals for detailed specifications.</p> <p>The following manufacturing options are suitable for the RightWON Plus units (RWR010000, RWR020000, and RWR030000) and must be ordered at the same time as RightWON Plus units.</p>			
<p>GSM-3G (EDGE/HSPA) Modem option, North American networks for RightWON Plus units</p>	<p>RWM020000</p>	<p>The Wireless Telecom Modem for RightWON Plus units features:</p> <ul style="list-style-type: none"> ▶ GSM/EDGE/GPRS/UMTS/HSPA+ 3G connection for North American cellular networks (Quad-band GSM/GPRS/EDGE-WCDMA-850/900/1800/1900 MHz, Penta-band HSPA+ 850/900/1700 (AWS)/1900/2100 MHz) ▶ TCP/IP and Short Message Service (SMS) ▶ Integrated SIM card slot ▶ SMA connector for external antenna (whip antenna supplied with the modem) ▶ Modem rated for a temperature range of -30 °C to +70 °C. <p>User-supplied items: compatible SIM card, remote antenna w/coaxial cable if so required.</p> <p>N.B. – Only one modem option must be selected. This manufacturing option has to be ordered at the same time as the RightWON Plus unit.</p>	
<p>GSM-3G (EDGE/HSPA) Modem option, European networks for RightWON Plus units</p>	<p>RWM020001</p>	<p>The Wireless Telecom Modem for RightWON Plus units features:</p> <ul style="list-style-type: none"> ▶ GSM/EDGE/GPRS/UMTS/HSPA+ 3G connection for European cellular networks (Quad-band GSM/GPRS/EDGE-WCDMA- 850/900/1800/1900 MHz, Penta-band HSPA+ 850/900/1700 (AWS)/1900/2100 MHz) ▶ TCP/IP and Short Message Service (SMS) ▶ Integrated SIM card slot, SMA connector for external antenna (whip antenna supplied with the modem) ▶ Rated for a temperature range of -30 °C to +70 °C. <p>User-supplied items: compatible SIM card, remote antenna w/coaxial cable if so required.</p> <p>N.B. – Only one modem option must be selected. This manufacturing option has to be ordered at the same time as the RightWON Plus unit.</p>	
<p>PSTN Modem option for RightWON Plus units</p>	<p>RWM030000</p>	<p>The RightWON Plus PSTN Modem features:</p> <ul style="list-style-type: none"> ▶ Leased line or dial-up telephone line connectivity w/approvals in more than 50 countries ▶ V.92/56K, V.34/33.6K, V.32bis/14.4K and V.22bis/2400 bps data rates, V.44 and V.42bis data compression, V.42 error correction ▶ Equipped with a RJ11 connector and offers 2 kV isolation + 2kV/4kV surge protection according to IEC 61000-4-5 ▶ Modem rated for extreme temperatures from -40 °C up to +70 °C. <p>External modem cable not supplied with the unit.</p> <p>N.B. – Only one modem option must be selected. This manufacturing option has to be ordered at the same time as the RightWON Plus unit.</p>	


DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
24 - RightWON Plus - High Speed Output Options			
The following options are suitable for RightWON Plus units (RWR010000, RWR020000). High Speed Static output options replace standard RightWON Plus Digital Outputs. You can order up to 12 High Speed Static outputs with RightWON Plus Type-2 (RWR020000) and up to 6 High Speed Static outputs with RightWON Plus Type-1 (RWR010000). The following manufacturing options must be ordered at the same time as the RightWON Plus units.			
Three (3) High Speed I/O Static Outputs 10A Option for RightWON Plus units	RWM000600	This output option has the following characteristics: ▶ Three (3) High Speed I/O Static Outputs 10A for RightWON Plus units (RWR010000, RWR020000) ▶ It will replace three (3) Digital Outputs by three (3) High Speed I/O Static Outputs. N.B. – This manufacturing option has to be ordered at the same time as the RightWON Plus unit.	
Six (6) High Speed I/O Static Outputs 10A Option for RightWON Plus units	RWM000700	This output option has the following characteristics: ▶ Six (6) High Speed I/O Static Outputs 10A for RightWON Plus units (RWR010000, RWR020000) ▶ It will replace six (6) Digital Outputs by six (6) High Speed I/O Static Outputs. N.B. – This manufacturing option has to be ordered at the same time as the RightWON Plus unit.	




25 - RightWON Plus - Options			
The following manufacturing options are suitable for the RightWON Plus units (RWR010000, RWR020000, RWR030000) and must be ordered at the same time as RightWON Plus units.			
RightWON Plus units Conformal Coating	RWM000400	The RightWON Plus units Conformal Coating Option offers: ▶ Conformal coating for RightWON Plus units (RWR010000, RWR030000, RWR020000) ▶ Additional protection for extremely aggressive environments (i.e. humidity, condensation, salt, pollution). N.B. – This manufacturing option has to be ordered at the same time as the RightWON Plus unit. Minimum quantity may apply.	







DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
1 - RightWON Satellite - Intelligent Units			
The RightWON system consists of modular, programmable, and rugged platforms that combine four automation key functions for the Energy and Industry fields: ▶ Fully IEC 61131-3 compliant PLC: Five programming languages: IL, ST, FBD, LD, SFC, local or remote programming ▶ Protocol Management: IEC 61850, DNP3, IEC 61400-25, DNP3 secure authentication V5, etc (Please refer to 3 - RightWON Satellite - Communication Protocols to see all protocols available) ▶ Human-Machine Interface: Web operating interface, display and monitor remote facilities, pure Web graphic synoptic with PC Editor ▶ Management and Monitoring Functions: Diagnose and anticipate failures, event journals, alarms and trending; event notifications by email, SMS and pager			
Although its flexibility and processing power can be leveraged in many industries, the RightWON Satellite is rated and highly recommended for Energy, Water and Wastewater, Infrastructure and Asset Management applications The RightWON Satellite is field-upgradeable and allows sized-to-fit configurations using I/O, LAN, WAN and Telecom smart Plug-Ins, including most variations of wireless telecommunication standards All units come with a single power input - 8 to 30Vdc, each 3 to 10W max. However a compatible, optional 85-260 Vac, 90-375 Vdc, 15W power unit can be supplied on request Convenient & expandable aluminum housing with DIN rail foot. All units are stackable, and can be panel mounted using the RightWON Mounting Bracket. See Section 7 - Accessories The RightWON Satellite units are suitable for up to 1000/1200 variables + tags projects. For unlimited data management, please inquire.			
RightWON Satellite CPU, -40 °C to +75 °C	RWU010000	The configurable RightWON Satellite CPU features: ▶ Isolated CANBus port (CANopen protocol) for third-party devices: I/Os, sensors, controllers, actuators, drives ▶ SD slot: compatible with SD V1.0 specifications and Micro SD card adapters ▶ USB port: USB 2.0 and UTMI compliant ▶ Built-in Programmable Logic Controller (PLC), IEC 61131-3 standard compliant ▶ Web server w/full graphical interface ▶ Modbus master/slave. DNP3 Secure V5. DNP3/DNP3 Secure V2 master/slave. Other protocols are available, for more information, please refer to Section - 3/RightWON/Communication Protocols ▶ 32-bit RISC CPU architecture with 64 MB RAM memory, 1 GB storage capability for trending and events ▶ Full support for three (3) RightWON LAN, WAN and I/O Smart Plug-Ins (2 x Front Plug-Ins, plus 1 x Top Plug-In).	
RightWON Satellite MCU, ESM-Type 4, -40 °C to +65 °C	RWU030004	The packaged RightWON Satellite MCU–ESM-Type 4 is a RightWON Satellite CPU expansion module featuring: ▶ Managed Ethernet switch (4+2 ports) with 2 x 10/100BASE-FX ports + 2 x 10/100BASE-T ports, daisy-chain + uplink ports, ring protocol support, RSTP/STP (IEEE802.1w/d) or DTRING redundant protocol; network topologies: ring, chain, star, tangent ring and others ▶ Expandable configuration through daisy-chain port (4, 8, etc.) ▶ Compliant with the following standards: IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.1d, IEEE802.1w, IEEE802.1p, IEEE802.1q ▶ Multiple management methods including CLI, TELNET, WEB, SNMP V1/V2/V3 and OPC ▶ Supports IGMP Snooping, QoS, VLAN, ACL, port trunking, port mirroring ▶ Safe MAC and port binding function, static FDB supported ▶ FO (fiber optic) interface: 2 x Multi Mode Fiber – 1310 nm, 0-5 km (100Mbps), Copper Ethernet interface: 2 x RJ45.	






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2.1 - RightWON Satellite Plug-Ins - Serial Ports			
The RightWON Serial Communication Plug-Ins for RightWON Satellite CPU module come with one, two or three serial ports for local data acquisition and multi-purpose communication with generic equipment. All serial ports support a wide variety of communication protocols (DNP3, Modbus, etc) and can be fully managed by programmers for the purpose of tailor-made applications. Point-to-point, modem control or multi-drop network communications can be achieved according to the selected interface (RS-232, RS-422 4-wire and/or RS-485 2-wires) and connector hardware. Please refer to the related technical manuals for detailed specifications. Optionally, also consider Combo Plug-Ins for additional needs.			
Front Plug-In, Single RS232/422/485 Serial Port with DB9 Connector, -40 °C to +75 °C	RWC0A0000	This Single Serial Port Plug-In for RightWON Satellite CPU Front slots features: <ul style="list-style-type: none"> ▶ One (1) non-isolated configurable interface ▶ Can be operated in RS-232 mode –total modem control capacity– or RS-485/2-wires or RS-422/4-wires ▶ Network termination through jumper enabled 120 Ohm resistors ▶ Plug-In equipped with a standard male DB9 connector (DTE). 	
Front Plug-In, Triple Isolated RS485 Ports on individual screw connectors, -40 °C to +75 °C	RWC0U0000	This Plug-In for RightWON Satellite CPU Front slots features: <ul style="list-style-type: none"> ▶ Three (3) 2 kV isolated RS-485/2-wires serial connections on individual, removable, screw-type terminal blocks ▶ Individual network termination through jumper enabled 120 Ohm resistors ▶ Faceplate is equipped with three bi-color led indicators for a convenient ingress/egress traffic control. 	






DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
2.2 - RightWON Satellite Plug-Ins - Ethernet Ports			
All RightWON LAN Communication Plug-Ins for RightWON Satellite CPU module come with individual Ethernet ports for data acquisition, multi-purpose communications and remote management support. All Ethernet ports support a wide variety of industrial protocols (DNP3, Modbus, IEC 61850 Server and GOOSE, IEC 60870-5-104 among others) over TCP/IP and accommodate three major media types: 10/100BASE-T connectivity (RJ45 connector) for copper network section, 10/100BASE-FX connectivity on Multimode Fiber Optic (ST connectors) and 10/100BASE-LX10 connectivity on Single Mode Fiber Optic (LC connectors). Please refer to the related technical manuals for detailed specifications. For additional needs, also consider the RightWON Satellite Combo Plug-Ins.			
Front Plug-In, Single Port , Isolated 100BASE-T Ethernet with RJ45 Connector, -40 °C to +75 °C	RWC0C0000	The Single Port Ethernet Plug-In for RightWON Satellite CPU Front slots features: <ul style="list-style-type: none"> ▶ One (1) isolated 100BASE-T LAN connection, operated at 10/100 Mbps (auto-detect) ▶ A standard RJ45 connector receives twisted-pair copper cables (category 5 or 6) and offers a 500 V galvanic isolation ▶ Multi-protocol supports with virtually unlimited number of concurrent services. 	
Front Plug-In, Single Port , 100BASE-FX Ethernet on Multimode Fiber Optic with ST Connector, -40 °C to +75 °C	RWC0D0000	The 100BASE-FX Ethernet Plug-In for RightWON Satellite CPU Front slots features: <ul style="list-style-type: none"> ▶ One (1) 100Mbps Multimode Fiber Optic Ethernet connection, with built-in 1300 nm transceiver and optical performance compliant to the FDDI PMD standard (ISO/IEC 9314-3:1990 and ANSI X3.166–1990) ▶ Supported fiber type: Multimode fiber optics with 62.5/125 μm or 50/125 μm core/clad diameter (requires two fibers (Tx and Rx, duplex cable) with bayonet-style connectors (ST)). 	
Front Plug-In, Single Port , 100BASE-LX10 Ethernet on Singlemode Fiber Optic with LC Connector, -40 °C to +75 °C	RWC0P0000	The 100BASE-LX10 Ethernet Plug-In for RightWON Satellite CPU Front slots features: <ul style="list-style-type: none"> ▶ One (1) 100 Mbps Singlemode Fiber Optic Ethernet Connection, with built-in 1300 nm transceiver compliant with Class 1 CDRH/IEC 825 and IEEE 802.3ah standards ▶ Supported fiber type: Singlemode fibers (Tx and Rx, duplex cable) with an LC style connector, compatible with SFF Multi Source Agreement (MSA). 	



DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
2.3 - RightWON Satellite Plug-Ins - Combo Style			
All RightWON Combo Plug-Ins for RightWON Satellite CPU module feature extended communication capabilities in a compact-size hardware, and offer a well-balanced blend of Ethernet & Serial ports - w/ or w/o insulation - for data acquisition, multi-purpose communications and remote management support. Please refer to the related technical manuals for detailed specifications.			
Top Plug-In, Combo: Isolated 100BASE-T Ethernet Port, RJ45 Connector, 2 kV Isolated Serial Ports: 1xRS232 + 1xRS485, RS422 w/Screw Connectors, 1x Digital Output, -40 °C to +75 °C	RWC0T0000	This Combo Serial/Ethernet Plug-In for RightWON Satellite CPU Top slot features: one (1) isolated 100BASE-T Ethernet port + two (2) isolated Serial ports + one (1) Digital Out. Serial-Port 1 is RS-485/2-wires or RS-422/4-wires compatible. Serial-Port2 port is RS232 compatible only - w/o modem control. Both Serial ports are fully protected according to IEC 60255 w/ 2kV insulation and come with removable screw terminal blocks. The 100BASE-T Ethernet port w/RJ45 connector offers a 500 V galvanic insulation. The 2kV isolated, built-in 0.5 A - 250 Vac/dc Digital Output is either a System Alarm monitor ("Watchdog" app.) or a general purpose output.	


DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
2.4 - RightWON Satellite Plug-Ins - Modems			
The RightWON Modem Plug-Ins for RightWON Satellite CPU modules feature state-of-the-art communication & networking capabilities in compact and embeddable hardware that withstand even the most extreme operation conditions. Most Plug-Ins are delivered in multiple versions that accommodate North American, European and other foreign countries' telecommunication standards. RightWON Satellite CPU module can manage one or several Modem Plug-Ins for various networking and remote management needs (ie: standalone unit, secured links, normal/backup telecom, mixed media). Please refer to the related technical manuals for detailed specifications.			
Front Plug-In, PSTN Modem, 2 kV Isolated, Surge protected, -40 °C up to +75 °C	RWCOG0000	The PSTN Modem Plug-In for RightWON Satellite CPU Front slots features: ▶ A leased line or dial-up telephone line connectivity w/approvals in more than 50 countries ▶ V.92/56K, V.34/33.6K, V.32bis/14.4K and V.22bis/2400 bps data rates, V.44 and V.42bis data compression, V.42 error correction ▶ Plug-In equipped with a RJ11 connector and offers 2 kV isolation + 2 kV/4 kV surge protection according to IEC 61000-4-5 ▶ Rated for extreme temperatures from -40 °C up to +75 °C (+85 °C rating). Note: External modem cable not supplied with the unit.	
Front Plug-In, GSM Quad Band/3G/HSDPA Modem, North American networks, -30 °C to +75 °C	RWCON1000	This Wireless Telecom Plug-In for RightWON Satellite CPU Front slots features: ▶ Advanced E-GPRS/WCDMA/HSDPA/HSUPA ▶ GSM Quad-band (850/900/1800/1900 MHz) ▶ WCDMA Multi-band (I, II, IV, V, VI, VIII and XIX) ▶ HSDPA up to 21.0 Mbps ▶ HSUPA up to 5.76 Mbps ▶ Effective plug-in throughput limited to 921 Kbps ▶ Supports Mobile-Originated (MO) SMS ▶ Supports IP4 over PPP (all IP protocols supported by RightWON devices)	
Front Plug-In, GSM Quad Band/3G/HSDPA Modem, European networks, -30 °C to +75 °C	RWCON1001	This Wireless Telecom Plug-In for RightWON Satellite CPU Front slots features: ▶ Advanced E-GPRS/WCDMA/HSDPA/HSUPA ▶ GSM Quad-band (850/900/1800/1900 MHz) ▶ WCDMA Multi-band (I, II, IV, V, VI, VIII and XIX) ▶ HSDPA up to 21.0 Mbps ▶ HSUPA up to 5.76 Mbps ▶ Effective plug-in throughput limited to 921 Kbps ▶ Supports Mobile-Originated (MO) SMS ▶ Supports IP4 over PPP (all IP protocols supported by RightWON devices)	




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3 - RightWON - Communication Protocols			
<p>The RightWON Satellite CPU and the RightWON Plus natively support Modbus protocol on Serial ports and Ethernet TCP & UDP links, in either Master or Slave mode, and DNP3 Master/Slave and achieves simultaneous multi-port/multi-master and multi-port/multi-slave configurations involving mixed media types. The RightWON Satellite CPU also features a built-in CANBus port w/CANopen protocol management that natively allows the connection of third-party devices: I/Os, sensors, controllers, actuators, and drives. General-purpose ASCII-based communication protocols (ie: serial printer, radio modem statistics, PLC protocols such as Omron Hostlink, Panasonic MEWTOCOL, ...etc) can be programmed/handled from softPLC applications. Additionally, industrial protocols can be managed and require license activation (Software tool required: refer to section 8 - RightWON Configuration Suite). The RightWON Satellite CPU and RightWON Plus support simultaneous multi-protocol links with protocol conversion, data translation and gateway functions.</p>			
IEC 61850 Server + GOOSE Protocol for RightWON Satellite or RightWON Plus unit	RWC00AY00	IEC 61850 Server + GOOSE Communication Protocol License for one (1) RightWON Satellite CPU or RightWON Plus	
IEC 60870-5-101-104 Slave Protocol for RightWON Satellite or RightWON Plus unit	RWC00BN00	IEC 60870-5-101 Slave + IEC 60870-5-104 Slave Communication Protocol License for one (1) RightWON Satellite CPU or RightWON Plus	
IEC 60870-5-101-103-104 Master Protocol for RightWON Satellite or RightWON Plus unit	RWC00BP00	IEC 60870-5-101 Master + IEC 60870-5-103 Master + IEC 60870-5-104 Master Communication Protocol License for one (1) RightWON Satellite CPU or RightWON Plus	
IEC 61850 Client Protocol for RightWON Satellite or RightWON Plus unit.	RWC00AZ00	IEC 61850 Client Communication Protocol License for one (1) RightWON Satellite CPU or RightWON Plus. Connectable IED: up to ten (10) for RightWON Satellite CPU (RWU010000) and up to twenty (20) for RightWON Plus unit (RWR0x0000)	
DLMS Protocol for RightWON Satellite or RightWON Plus unit	RWC00BU00	DLMS Protocol for one (1) RightWON Satellite CPU or RightWON Plus unit	
C37.118 Client Protocol for RightWON Satellite or RightWON Plus unit	RWC00BV00	C37.118 Client Protocol for one (1) RightWON Satellite CPU or RightWON Plus unit	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
5 - RightWON Satellite Plug-Ins - Input/Output			
<p>The RightWON I/O Plug-Ins for RightWON Satellite CPU Front slots are fully controlled by soft PLC applications and allow local digital or analog input/acquisition and digital output control. Common specifications are as follows:</p> <ul style="list-style-type: none"> ▶ Physical interface: 1 or 2 high-density 16-pin connectors with cable ejectors ▶ Digital Input (DI): -55 to +55 Vdc / NPN-PNP polarity or 5-36 Vac, optocouplers w/2kV insulation 4, 6 or 8 inputs per common, 1 sample/ms with 4ms filtering ▶ Digital Output (DO): Form A / normally-open Relay, 1A at 30 Vdc, 0.3A at 125 Vac, resistive load, maximum 1A per common, 2 or 4 outputs per common ▶ Analog Input (AI): Differential type, 0-15V, 0-20/4-20 mA (jumper selectable), 10 bits, ±0.1%, scaling 0 to 100 000 x 0.001% (15V, 20 mA = 100000, 0V, 0 mA = 0), 2-wire, 3-wire and 4-wire analog sensors supported 			
Front Plug-In, I/O Type, 16 DI / 8 DO-R / 0 AI / 0 AO, -40 °C to +75°C	RWO010000	Front Plug-In, I/O Type, 16 Digital Inputs / Isolated, 8 Digital Outputs / Relay, 0 Analog Inputs	
Front Plug-In, I/O Type, 14 DI / 6 DO-R / 2 AI / 0 AO, -40 °C to +75°C	RWO020000	Front Plug-In, I/O Type, 14 Digital Inputs / Isolated, 6 Digital Outputs / Relay, 2 Analog Inputs	
Front Plug-In, I/O Type, 12 DI / 4 DO-R / 4 AI / 0 AO, -40 °C to +75°C	RWO030000	Front Plug-In, I/O Type, 12 Digital Inputs / Isolated, 4 Digital Outputs / Relay, 4 Analog Inputs	
Front Plug-In, I/O Type, 8 DI / 4 DO-R / 0 AI / 0 AO, -40 °C to +75°C	RWO015000	Front Plug-In, I/O Type, 8 Digital Inputs / Isolated, 4 Digital Outputs / Relay, 0 Analog Inputs	
Front Plug-In, I/O Type, 6 DI / 2 DO-R / 2 AI / 0 AO, -40 °C to +75°C	RWO035000	Front Plug-In, I/O Type, 6 Digital Inputs / Isolated, 2 Digital Outputs / Relay, 2 Analog Inputs	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
7 - RightWON - Accessories and Options			
The following accessories, spare parts and options are suitable for the RightWON Satellite CPU, RightWON Satellite MCU and/or RightWON Plus units			
RightWON Satellite CPU Battery	RWACC0000	Spare part: Battery lithium coin 3V 12.5 mm–CR1220 type for RightWON Satellite CPU module. The battery has an overall 5 to 10 years expected lifespan in a non-powered unit. Battery is used for real-time clock backup only.	
RightWON Satellite Multi-Purpose Mounting Bracket	RWAAA0000	Accessory: Multi-purpose mounting bracket for RightWON Satellite CPU and MCU modules. The bracket can be installed on a panel (panelmount unit) or on a DIN rail in four (4) orientations: RightWON front panel to the left, right, up or down, allowing a convenient setup for cable routing and easy access to connectors. The RightWON unit is securely attached on the bracket and locked with one (1) screw.	
RightWON Satellite DEMO-CASE W-O	RWADC0000	The RightWON Demo Case accessory accommodates two RightWON Satellite units –not supplied with the Demo Case– and features: <ul style="list-style-type: none"> ▶ 120/240 Vac power supply and power cord ▶ Integrated low capacity battery backup w/charger, DIN rail, internal switch (enabled wireless and wired local network) ▶ Power/Serial/Ethernet and I/O connectors for RightWON units ▶ Remotely programmable micro-PLC with digital/analog I/Os and local display, leds, pushbuttons, selectors, thermocouples for temperature acquisition. Intended for resellers and vendors, this convenient and functional set is bundled in a rugged yet light-weight and elegant suitcase.	
RightWON Satellite CPU Conformal Coating	RWACA0000	The Conformal Coating option for one RightWON Satellite CPU features: <ul style="list-style-type: none"> ▶ Additional protection for extremely aggressive environments (i.e. humidity, condensation, salt, pollution) ▶ A set of silicon caps for SD card slot ▶ USB programming port ▶ CANbus port slot ▶ RWACB0000 option (batteryless CPU backup). Important Notes: <ul style="list-style-type: none"> ▶ Includes the RWACB0000 option (batteryless CPU backup). ▶ The CANBus port is disconnected and unavailable. ▶ MCU connection not possible. 	
RightWON Satellite CPU Batteryless backup	RWACB0000	Option: To customers who are seeking batteryless automation platforms, Vizimax offers this alternative to the RightWON Satellite CPU battery backup : Supercap technology. This option must be ordered with the RightWON Satellite CPU	
RightWON Rackmount DIN Rail Panel	RWACE0000	Rack Mount DIN Rail Panel for mounting RightWON Satellite CPU and RightWON Satellite MCU inside standard 19" equipment racks. The accessory has the following features: <ul style="list-style-type: none"> ▶ 3U Standard 19" ▶ One (1) x 15.75" (400.05mm) length DIN rail tracks ▶ 3 mm aluminum standard rail ▶ Maximum Load Rating: Up to 50 Lbs. 	
RightWON Power Supply, 24Vdc output, 90 Vdc to 375Vdc input	RWACF0000	The External RightWON Power Supply, Switch Mode is available for RightWON Satellite CPU and RightWON Satellite MCU. The Power Supply has the following features: <ul style="list-style-type: none"> ▶ Input Voltage of 90 Vdc to 375 Vdc, 85-264 Vac ▶ Output Voltage of 24 Vdc ▶ Output Current Max: 2.5 A ▶ Output Power Max: 60 W 	
RightWON Redundancy Power Supply Kit (2x Power Supplies 24Vdc output, 90 Vdc to 375Vdc input and redundancy module)	RWACG0000	The Redundancy Power Supply Kit includes: <ul style="list-style-type: none"> ▶ Two (2) power supplies (RWACF0000) ▶ One (1) DIN rail terminal block with DIODE ▶ One (1) DIN rail terminal block and plate 	
RightWON Plus Cables Kit-1. Serial and power supply cables	RWACH0000	The RightWON Plus Cables Kit-1 includes one (1) serial cable + one (1) power supply cable and is available for RightWON Type-0, Type-1 and Type-2 units. Cables are equipped with connectors and free wires on the other side. Cable length: 121 cm/48 inches	
RightWON Plus Cables Kit-2. I/O cables for first board	RWACI0000	The RightWON Plus Cables Kit-2 includes one (1) Analog Input cable + two (2) Digital Input cables + two (2) Digital Output cables and is available for RightWON Type-1 and Type-2 units. Cables are equipped with connectors and free wires on the other side. Cable length: 121 cm/48 inches	
RightWON Plus Cables Kit-3. I/O cables for second board	RWACJ0000	The RightWON Plus Cables Kit-3 includes one (1) Analog Input cable + two (2) Digital Input cables + two (2) Digital Output cables and is available ONLY for RightWON Type-2 unit. Cables are equipped with connectors and free wires on the other side. Cable length: 121 cm/48 inches	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
8 - RightWON Configuration Suite			
<p>The RightWON Configuration Suite is a multi-language programming & commissioning software for RightWON units. The RightWON Configuration Suite is installed on PC-based computers and allows project development, application download/upload and project/sites/licensing management for any RightWON unit, and offers numerous smart functions such as: all-in-one multi-project environment featuring I/O - PLC - Protocol - Remote management - Graphic web HMI management and configuration, function block and library management for project re-usability, IEC 61850 embedded SCL editor for Energy fields.</p> <p>Each licensed software (refer to USB dongle RWS020000 or MAC address license RWS021000) makes it possible to configure and fine tune an unlimited number of RightWON units. The RightWON Configuration Suite achieves program/firmware/licensing download, monitoring and upgrade, either locally or remotely.</p> <p>It includes:</p> <ul style="list-style-type: none"> ▶ A help interface to configure the key functions. ▶ An integrated IEC 61850 SCL editor for the Energy field. ▶ 100% IEC 61131-3 compliant programming environment with full language support and language conversion (IL, ST, FBD, LD, SFC). ▶ Protocol management : IEC 61850 with Client, GOOSE, Server interfaces, IEC 60870-5-10X, SDI-12, Modbus, C37.118, IEC 61400-25-2, DNP3 with Slave and Master interfaces. ▶ Graphical RightWON hardware configuration with Plug-In library and embedded documentation. ▶ Dedicated modules performing extensive parameterization of: communication links and related services, protocols and protocol conversions (gateway function), SCADA links, telecommunication features (broadcast, emails, SMS, MMS, among others). ▶ Advanced remote management capabilities: WiseWON Tags, Categories, Sectors, Broadcasts, user group and user definition, access management, event generation & broadcast based on configurable criteria, data-logging. ▶ Graphical Web interface: several synoptic graphs in real time for control and remote monitoring of equipment for a facility (available for the design and operation). ▶ Offline, Simulation and Online modes. <p>The RightWON Configuration Suite software can be downloaded from our website : www.vizimax.com/support/download for evaluation purposes. An unlicensed installation is fully functional and allows small configurations (up to 40 variables/Tags) that will remain active for 15 minutes (either in Simulation mode or with RightWON download).</p>			
RightWON Configuration Suite - LICENSE+DONGLE	RWS020000	<p>The RightWON Configuration Suite activation dongle allows the RightWON Configuration Suite software activation (no disk included).</p> <p>This physical USB activation dongle is purchased once and allows to set-up an unlimited number of RightWON units from a single computer at a certain time.</p> <p>Software updates are available for download from VIZIMAX website : www.vizimax.com/support/download</p>	
RightWON Configuration Suite - LICENSE+MAC ADDRESS	RWS021000	<p>The RightWON Configuration Suite activation license allows the RightWON Configuration Suite software activation (no disk included).</p> <p>This activation license, based on a computer's unique MAC address, allows to configure an unlimited number of RightWON units from this computer only.</p> <p>THIS LICENSE IS NOT TRANSFERABLE TO ANOTHER PC AND CAN ONLY BE USED ON A DEDICATED PC (UNIQUE MAC ADDRESS).</p> <p>Software updates are available for download from VIZIMAX website : www.vizimax.com/support/download</p>	

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
15 - RightWON Engine - Intelligent Units			
<p>The RightWON Engine consists of programmable and rugged platforms that combine four automation key functions for the Energy and Industrial fields:</p> <ul style="list-style-type: none"> ▶ Fully IEC 61131-3 compliant PLC: Five programming languages: IL, ST, FBD, LD, SFC, local or remote programming ▶ Protocol Management: IEC 61850, DNP3, IEC 61400-25, etc (Please refer 16 - RightWON Engine - Communication Protocols to see all protocols available) ▶ Human-Machine Interface: Web operating interface, display and monitor remote facilities, pure Web graphic synoptic with PC Editor ▶ Management and Monitoring Functions: Diagnose and anticipate failures, event journals, alarms and trending; event notifications by email, SMS and pager <p>The RightWON Engine can manage an unlimited number of data. Please inquire for product availability and project feasibility.</p>			
			

DESCRIPTION	PART NUMBER	SUMMARY	PICTURE
14 - RightWON Services			
<p>VIZIMAX offers training provided on an 8h/week-day basis by one (1) specialist for up to five (5) attendees and an extra fee will be charged for each additional participant, up to a total of 10. Trainer's travelling time and living expenses are excluded. VIZIMAX also offers remote support provided by one (1) specialist.</p> <p>Services and Training modules are exclusive of all applicable taxes/duties (such as and without limitation, all sales, export or import duties, reservations, travelling costs and time, hotels and living expenses, vehicle rentals, mileage fees). Extra-costs may apply for special requests (overtime, weekends, overnight working activities).</p> <p>Trainer's travelling and living expenses such as reservations, travelling costs, hotels, vehicle or equipment rentals and mileage fees will be invoiced on a cost +15% basis.</p> <p>Prices and conditions herein do not constitute a formal offer.</p> <p>Limitations of liability apply.</p>			
RightWON Training	RWV0000AD	TRAINING Price is for up to 5 participants. 500\$ extra will be charged for each additional participant, up to a total of 10. Travelling/living time & expenses excluded Per day fee, per involved specialist	
RightWON On-Site Support	RWV0000AG	ON SITE SUPPORT Per day fee, per involved specialist. Travelling time and living expenses excluded	
RightWON Remote support	RWV0000AH	REMOTE SUPPORT Per-hour fee, per involved specialist. Individual calls will be charged for a minimum of 30 minutes.	
RightWON Travelling time	RWV0000AM	TRAVELLING TIME Travel and living expenses excluded. For more details, please consult VIZIMAX's General Sales Terms and Conditions. Per-day fee, per involved specialist	