

BATTERY-POWERED CELLULAR REMOTE MONITORING PACKAGE



SCADACORE VIACELL-100

Easy-to-install and roll-out ready, battery-powered cellular gateway solution

SCADACore ViaCell-100 is a fully integrated, batterypowered cellular gateway with I/O for connecting to a wide range of external sensors.

Designed to work in rugged industrial environments, the ViaCell-100 is the ideal solution for companies looking to add remote monitoring in places where power is not easily available.

Local protocol support allows the ViaCell-100 to communicate with Modbus sensors; the 4 Analog Inputs and Digital Input allow the ViaCell-100 to work with a large variety of sensors.

SCADACore Live captures data from the SCADACore ViaCell-100, providing a web-based dashboard for clients to access all their remote data.

Escalating alarm call-lists can be set up to alert personnel, via SMS, Email, and/or Voice messages, when sensor data has reached alarm threshold levels.

With Daily Reporting, the battery has a lifespan of ~2 years. An optional solar panel accessory is available for extending battery life.

FEATURES

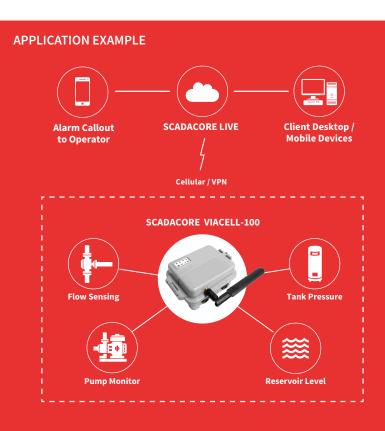
- Weatherproof enclosure
- Alarm Callout / Alarm Notifications via SMS, Email, and / or Voice Messages
- 4 AIN, 4 AOUT, 1 DIN, 1 DOUT
- HART 5, HART 7, Modbus RTU, Modbus ASCII
- Embedded 2G, 3G, LTE
- Class 1 Div 2
- -40 °C to +85 °C
- 152.4 mm x 127 mm x 74.6 mm
- Magnetic Mount
- Solar Panel Accessory Available

RELATED PRODUCTS









CORAINDS CSM 18CB, CSM 18CB, CSM 18CB, CSM 18CB, CSM 18CB CIR CARCEONY I CPOD 18 JZ, D. B. S. D. B. B. CIR CARCEONY I CRECORD SMAPS, A. S. D. B. CIR CARCEONY I CRECORD SMAPS, A. S. D. B. CAMPATIONIA CONNECTOR DETECTION JAIR SIM SLOTS J. Sandard date MANAGEDIST CL. Sandard date CONFIGURATION AND MANAGEMENT CL. SCAPECOR LIVE POWER RICHARY SEEDING SEVECTION SOUTC RATTERY AND DATTERY LIFE C. SCAPECOR LIVE COWER DRAW, SEEDING 400 and MINDUTER DRAW 4, Coeffigurable as 4/20 and or 0-10 VDC Analog inputs INPUT USER DRAW 4, Coeffigurable as 4/20 and or 0-10 VDC Analog inputs INPUT USER DRAW 4, Coeffigurable as 4/20 and or 0-10 VDC Analog inputs INPUT USER DRAW 4, Coeffigurable as 4/20 and or 0-10	SPECIFICATIONS	SCADACore ViaCell-100
	WWAN	
CTE CATEGORY	2G BANDS	GSM 850, GSM 900, DCS 1800, PCS 1900
ATTENDAY CONNECTOR	3G BANDS	FDD B1, B2, B4, B5, B8
Standard size	LTE CATEGORY 1	
MANAGEMENT SCADACore Live SCADACORE LIVE LIVE LIVE LIVE LIVE LIVE LIVE LIV	ANTENNA CONNECTOR	External SMA
CONFIGURATION AND MANAGEMENT SCADACore Live	SIM SLOTS	1, Standard size
POWER (Date: not include power draw of restored 19	MANAGEMENT	
EXTERNAL POWER INPUT RANGE 8.0 UPC to 30 VPC 9.0 V	CONFIGURATION AND MANAGEMENT	SCADACore Live
BATTERY AND BATTERY LIFE	POWER (Does not include power draw of external sensors)	
POWER DRAW, SLEEPING 86.4 uW 400 mW 400	EXTERNAL POWER INPUT RANGE	8 VDC to 30 VDC
Mommar M	BATTERY AND BATTERY LIFE	7.2 V, 14.5 Ah, Lithium thionyl chloride, non-rechargeable, replaceable; Approximately 2 years (@ 2 reads/transmits per day)
CONTINUOUS MONITOR 400 mW POWER DRAW, PEAK TRANSMIT 14.4 Watts SENSOR PROTOCOL SUPPORT MOBUS MODBUS MODBUS RTU AND ASCII, Connect to up to 4 devices ANALOG I/O ************************************	POWER DRAW, SLEEPING	86.4 uW
MOBUS MOBUS MOBUS RTU AND ASCII, Connect to up to 4 devices		400 mW
MODBUS MODBUS RTU AND ASCII, Connect to up to 4 devices	POWER DRAW, PEAK TRANSMIT	14.4 Watts
ANALOG I/O INPUTS	SENSOR PROTOCOL SUPPORT	
INPUT VOLTAGE RANGE	MODBUS	MODBUS RTU AND ASCII, Connect to up to 4 devices
INPUT VOLTAGE RANGE	ANALOG I/O	
INPUT CURRENT RANGE	INPUTS	4, Configurable as 4/20 mA or 0-10 VDC Analog inputs
Internal A/D Converter 12 bit	INPUT VOLTAGE RANGE	0-10.5 V (Analog input)
DIGITAL I/O PORTS 1. digital /O or pulse counter input INPUT RANGE 0-0.6 VCD logic low; 2.2 V-30 VDC logic high MAX INPUT VOLTAGE 30 VDC MAX PULSE COUNT FREQUENCY 2 KHZ DIGITAL OUTPUT 0 Open collector output, max sink current 450 mA OUTPUT POWER PORTS 5 5 OUTPUT VOLTAGE OPTIONS 3.3, 5, 15, 24 VDC MAX CURRENT OUTPUT 200 mA ENVIRONMENTAL OPERATING TEMPERATURES -35° Cto +70° C STORAGE TEMPERATURES -40° Cto +85° C RELATIVE HUMIDITY 90% BATTERY DISCHARGE > 156 /45 /45 /45 /45 /45 /45 /45 /45 /45 /45	INPUT CURRENT RANGE	4-22 mA (Current loop input)
PORTS 1 digital I/O or pulse counter input INPUT RANGE 0-0.6 VCD logic low; 2.2 V-30 VDC logic high MAX INPUT VOLTAGE 30 VDC MAX PULSE COUNT FREQUENCY 2 KHZ DIGITAL OUTPUT 0 pen collector output, max sink current 450 mA OUTPUT POWER PORTS 5 OUTPUT VOLTAGE OPTIONS 3.3, 5, 15, 24 VDC MAX CURRENT OUTPUT 200 mA ENVIRONMENTAL OPERATING TEMPERATURE -35° C to +70° C STORAGE TEMPERATURE -40° C to +85° C RELATIVE HUMIDITY 90% BATTERY DISCHARGE -19% / year if stored at +30° C PHYSICAL DIMENSIONS (L x W x H) 152.4 mm x 108.4 mm (127 mm including glands) x 74.6 mm WEIGHTS 264 g LEDS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REQUIATORY APPROVALS LEOS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REGUIATORY APPROVALS LEOS INDICATORS Battery, cellular, sensor and Bluetooth Class 1, Division II, groups A,B,C,D; ANSI/ISA 12,12.01.2015, CAN/CSA C22.2 No .213-15, 1st Ed ATEX HOODS -0:2012 +A11:2013, EN 60079-15:2010, el 3 G Ex n A n C I ICT G C EMISSIONS FCC part 15 Subpart B class B, ENS502: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY ENS5024:2010 WARRANTY ENS5024:2010 AND THE TIME TO	INTERNAL A/D CONVERTER	12 bit
IMPUT RANGE	DIGITAL I/O	
MAX INPUT VOLTAGE 30 VDC MAX PULSE COUNT FREQUENCY 2 KHZ DIGITAL OUTPUT Open collector output, max sink current 450 mA OUTPUT POWER 5 PORTS 5 OUTPUT VOLTAGE OPTIONS 3.3, 5, 15, 24 VDC MAX CURRENT OUTPUT 200 mA ENVIRONMENTAL OPERATING TEMPERATURES *35°C to +70°C ************************************	PORTS	1 digital I/O or pulse counter input
MAX PULSE COUNT FREQUENCY 2 KHZ DIGITAL OUTPUT Open collector output, max sink current 450 mA OUTPUT POWER PORTS FORTS 5 OUTPUT VOLTAGE OPTIONS 3.3, 5, 15, 24 VDC MAX CURRENT OUTPUT 200 mA ENVIRONMENTAL ***OPERATING TEMPERATURES*** -35° C to +70° C STORAGE TEMPERATURE -40° C to +85° C RELATIVE HUMIDITY 90% BATTERY DISCHARGE 19% / year if stored at +30° C PHYSICAL ***DIMENSIONS (L x W x H)** WEIGHTS 264 g LEDS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REGULATORY APPROVALS ***EN G0950-1; CAN/CSA C22; 2 No. 60950-1-21, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2006 (A11:2009 / A12:2011 / A2:2013 and EN 60950-2:2006; C15ss 1, Division II, groups, AB, C,D, NASI/ISA 12.12.01:2015, CAN/CSA C22.2 No 213:15, 1st Ed EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY EN55024:2010	INPUT RANGE	0-0.6 VCD logic low; 2.2 V-30 VDC logic high
DIGITAL OUTPUT Open collector output, max sink current 450 mA	MAX INPUT VOLTAGE	30 VDC
OUTPUT POWER 5 PORTS 5 OUTPUT VOLTAGE OPTIONS 3.3, 5, 15, 24 VDC MAX CURRENT OUTPUT 200 mA ENVIRONMENTAL OPERATING TEMPERATURES -35°C to +70°C STORAGE TEMPERATURE 40°C to +85°C RELATIVE HUMIDITY 90% BATTERY DISCHARGE +1% / year if stored at +30°C PHYSICAL DIMENSIONS (L x W x H) 152.4 mm x 108.4 mm (127 mm including glands) x 74.6 mm WEIGHTS 264 g LEDS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REGULATORY APPROVALS UL60950-1; 2007 (A12:2010 / A12:2011 / A12:2013 / A	MAX PULSE COUNT FREQUENCY	2 KHZ
PORTS 5 OUTPUT VOLTAGE OPTIONS 3.3,5,15,24 VDC MAX CURRENT OUTPUT 200 mA ENVIRONMENTAL OPERATING TEMPERATURES -35° C to +70° C STORAGE TEMPERATURE -40° C to +85° C RELATIVE HUMIDITY 90% BATTERY DISCHARGE +19% / year if stored at +30° C PHYSICAL DIMENSIONS (L x W x H) WEIGHTS 264 g LEDS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REGULATORY APPROVALS SAFETY UL60950-1, CAN/CSA C22, 2 No. 60950-1-01, IEC 60950-1-2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60050-1:2005 (DIGITAL OUTPUT	Open collector output, max sink current 450 mA
OUTPUT VOLTAGE OPTIONS 3.3,5,15,24 VDC MAX CURRENT OUTPUT 200 mA ENVIRONMENTAL OPERATING TEMPERATURES -35°C to +70°C STORAGE TEMPERATURE -40°C to +85°C RELATIVE HUMIDITY 90% BATTERY DISCHARGE +1% / year if stored at +30°C PHYSICAL DIMENSIONS (L x W x H) DIMENSIONS (L x W x H) 152.4 mm x 108.4 mm (127 mm including glands) x 74.6 mm WEIGHTS 264 g LEDS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REGULATORY APPROVALS UL60950-1, CAN/CSA C22.2 No. 60950-1-01, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2005 (A11:2009 / A1:2010 / A12:2011 / A2:2013 and EN 60950-2:22006; Class 1, Division II, groups A,B,C,D; ANSI/ISA 12.12.01:2015, CAN/CSA C22.2 No 213-15, 1st Ed ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex nan C IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY ENS5024:2010 WARRANTY	OUTPUT POWER	
MAX CURRENT OUTPUT 200 mA ENVIRONMENTAL OPERATING TEMPERATURES -35°C to +70°C STORAGE TEMPERATURE -40°C to +85°C RELATIVE HUMIDITY 90% BATTERY DISCHARGE <1% / year if stored at +30°C	PORTS	5
ENVIRONMENTAL OPERATING TEMPERATURES -35°C to +70°C STORAGE TEMPERATURE -40°C to +85°C RELATIVE HUMIDITY 90% BATTERY DISCHARGE -1%/ year if stored at +30°C PHYSICAL TO IMENSIONS (L x W x H) DIMENSIONS (L x W x H) 152.4 mm x 108.4 mm (127 mm including glands) x 74.6 mm WEIGHTS 264 g LEDS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REGULATORY APPROVALS Lexan/IP66 REGULATORY APPROVALS UL60950-1, CAN/CSA C22.2 No. 60950-1-01, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2006 (A11:2009 / A12:2011 / A2:2013 and EN 60950-2:2006; Class 1, Division II, groups A,B,C,D, ANSI/ISA 12.12.01:2015, CAN/CSA C22.2 No. 213-15, 1st Ed ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex na n C IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, ENS5022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY ENS5024:2010	OUTPUT VOLTAGE OPTIONS	3.3, 5, 15, 24 VDC
OPERATING TEMPERATURES -35°C to +70°C STORAGE TEMPERATURE -40°C to +85°C RELATIVE HUMIDITY 90% BATTERY DISCHARGE <1% / year if stored at +30°C	MAX CURRENT OUTPUT	200 mA
STORAGE TEMPERATURE	ENVIRONMENTAL	
RELATIVE HUMIDITY 90% BATTERY DISCHARGE <1% / year if stored at +30° C	OPERATING TEMPERATURES	-35°C to +70°C
BATTERY DISCHARGE PHYSICAL DIMENSIONS (L x W x H) 152.4 mm x 108.4 mm (127 mm including glands) x 74.6 mm WEIGHTS 264 g LEDS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REGULATORY APPROVALS UL60950-1, CAN/CSA C22.2 No. 60950-1-01, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2006 / Al1:2009 / Al2:2011 / Al2:2011 / Al2:2013 and EN 60950-22:2066; Class 1, Division II, groups A,B,C,D; ANSI/ISA 12.12.01:2015,CAN/CSA C22.2 No 213-15, 1st Ed ATEX EN 60079-0:2012+Al1:2013, EN 60079-15:2010, ell 3 G Ex nA nC IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY EN55024:2010	STORAGE TEMPERATURE	-40°C to +85°C
DIMENSIONS (L x W x H) 152.4 mm x 108.4 mm (127 mm including glands) x 74.6 mm	RELATIVE HUMIDITY	90%
DIMENSIONS (L x W x H) 152.4 mm x 108.4 mm (127 mm including glands) x 74.6 mm	BATTERY DISCHARGE	<1% / year if stored at +30 ° C
WEIGHTS 264 g LEDS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REGULATORY APPROVALS UL60950-1, CAN/CSA C22.2 No. 60950-1-01, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013 and EN 60950-22:2006; Class 1, Division II, groups A,B,C,D; ANSI/ISA 12.12.01:2015,CAN/CSA C22.2 No 213-15, 1st Ed ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex nA nC IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY EN55024:2010	PHYSICAL	
LEDS INDICATORS Battery, cellular, sensor and Bluetooth ENCLOSURE Lexan/IP66 REGULATORY APPROVALS UL60950-1, CAN/CSA C22.2 No. 60950-1-01, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013 and EN 60950-22:2006; Class 1, Division II, groups A,B,C,D; ANSI/ISA 12.12.01:2015,CAN/CSA C22.2 No 213-15, 1st Ed ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex nA nC IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY EN55024:2010	DIMENSIONS (L x W x H)	152.4 mm x 108.4 mm (127 mm including glands) x 74.6 mm
ENCLOSURE REGULATORY APPROVALS UL60950-1, CAN/CSA C22.2 No. 60950-1-01, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2006 / A11:2009 / A12:2011 / A2:2013 and EN 60950-22:2006; Class 1, Division II, groups A,B,C,D; ANSI/ISA 12.12.01:2015,CAN/CSA C22.2 No 213-15, 1st Ed ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex nA nC IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY EN55024:2010 WARRANTY	WEIGHTS	264 g
UL60950-1, CAN/CSA C22.2 No. 60950-1-01, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013 and EN 60950-22:2006; Class 1, Division II, groups A,B,C,D; ANSI/ISA 12.12.01:2015,CAN/CSA C22.2 No 213-15, 1st Ed ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex nA nC IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY EN55024:2010	LEDS INDICATORS	Battery, cellular, sensor and Bluetooth
SAFETY UL60950-1, CAN/CSA C22.2 No. 60950-1-01, IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013, EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013 and EN 60950-22:2006; Class 1, Division II, groups A,B,C,D; ANSI/ISA 12.12.01:2015,CAN/CSA C22.2 No 213-15, 1st Ed ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex nA nC IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY EN55024:2010 WARRANTY	ENCLOSURE	Lexan/IP66
SAFETY EN 60950-1:2006 / A11:2009 / A1:2011 / A2:2013 and EN 60950-22:2006; Class 1, Division II, groups A,B,C,D; ANSI/ISA 12:12:01:2015,CAN/CSA C22:2 No 213-15, 1st Ed ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex nA nC IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY EN55024:2010 WARRANTY	REGULATORY APPROVALS	
Class 1, Division II, groups A,B,C,D; ANSI/ISA 12.12.01.2013, CAN/CSA C22.2 No 213-15, 18t Ed ATEX EN 60079-0:2012+A11:2013, EN 60079-15:2010, ell 3 G Ex nA nC IIC T6 Gc EMISSIONS FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B IMMUNITY EN55024:2010 WARRANTY	SAFETY	
IMMUNITY EN55024:2010 WARRANTY		
WARRANTY	EMISSIONS	FCC part 15 Subpart B class B, EN55022: 2010/AC: 2011 class B, IECS-003 Issue 5: 2012 class B
	IMMUNITY	EN55024:2010
PRODUCT WARRANTY 1 year	WARRANTY	
	PRODUCT WARRANTY	1 year

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