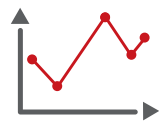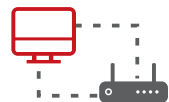# Robustel Cloud Manager Service Stack

Robustel Cloud Manager Service Stack (RCMS Stack) is Robustel's on premises-deployed management platform. RCMS Stack is designed to provide rapid device deployment and extensive management through an intuitive user interface and on-boarding processes. RCMS Stack connects you to the Industrial Internet of Things, with a flexible, secure and cost effective way to collect, store and distribute device data.

Management Dashboards

The central dashboard provides a visual overview displaying the status of your all connected devices in the field. Through this dashboard, you can get an instant snapshot of device data usage, performance and cost.

Zero-Touch Deployment

Device templates and profiles allow you to remotely deploy and manage your fleet of Robustel devices instantly without user intervention.

Device Monitoring

Set performance parameters for your devices to get reports and alerts on network connectivity, signal quality, data usage, packet loss & more. Device monitoring provides historical and current data on an individual device or group basis. These monitoring tools help you understand your environment to identify and prevent problems before they occur.

Remote Management

RCMS Stack lets you monitor, diagnose and fix remote devices through an online interface without sending a technical support on site. Remotely configure and perform firmware updates on individual devices or bulk update your entire fleet in seconds.

SIM Card Integration

Using powerful API integrations RCMS Stack can integrate with leading SIM providers to allow you to control and monitor your SIMs from a single interface.

RobustVPN

RCMS Stack brings next generation hardware defined VPN solutions to your fleet. RobustVPN makes creating and monitoring VPN connections simple and integrates with popular protocols like OpenVPN.

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V1.1.9

NOTE: Specifications are subject to change without notice.

Recommend product: M1200

The industrial level oriented product design enable M1200 to provide 24h/7d online communication for remote data collection in harsh 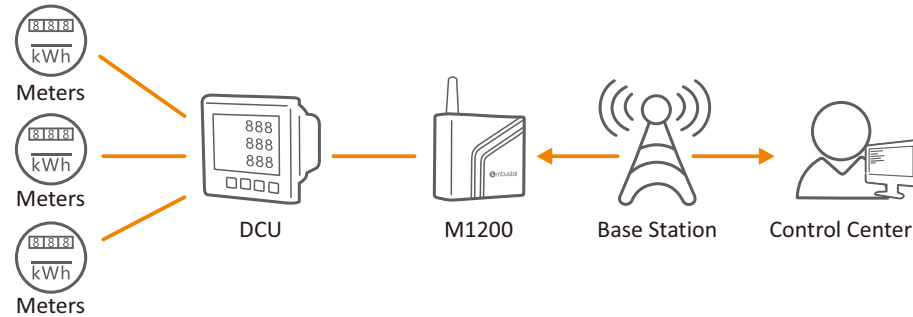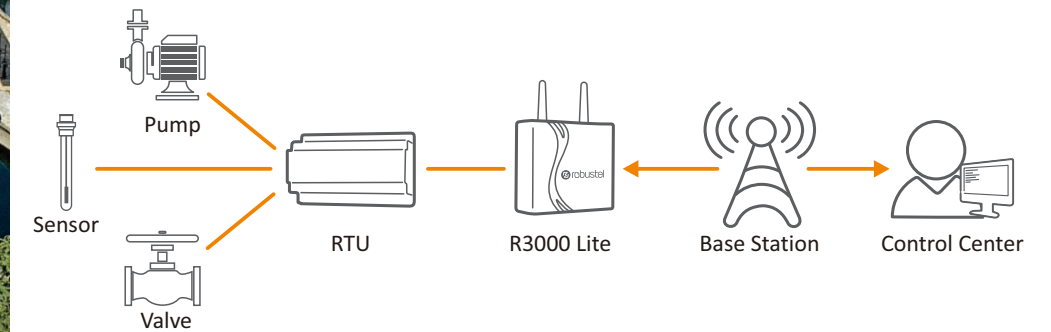field environment such as electromagnetic interference and extreme weather conditions. Friendly to 3rd party cloud platforms, its intelligent capability like Modbus TCP to RTU conversion, remote management, configuration, and over-the-air firmware update simplify the integration, installation, operation and maintenance of any wireless data solution.

Automatic Meter Reading

kWh Meters — kWh Meters — kWh Meters → DCU → M1200 → Base Station → Control Center

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Recommend product: R3000

The R3000 is a versatile communication device enabling pervasive and reliable connectivity of pole-mounted sectionalizers, reclosers, with rugged design, high EMC level compliance and wide operation temperature, the R3000 could provide always online connection required for remote critical data collection in the outdoor, complex electromagnetic field environments.

Recloser — Transformer → RTU → R3000 → Base Station → Control Center

Distribution Automation

Recommend product: R2000 Dual

The R2000 Dual provides solid 4G LTE connectivity with dual modules failover to maximize the upload bandwidth and network availability to video surveillance system, and through POE, users could use RCMS cloud to control the ON/OFF of remote cameras and simply the cabling.

IP Camera — IP Camera — NVR → POE → R2000 Dual → ISP 1 (Main link) / ISP 2 (backup) → Internet → Wireless Video Monitoring Center
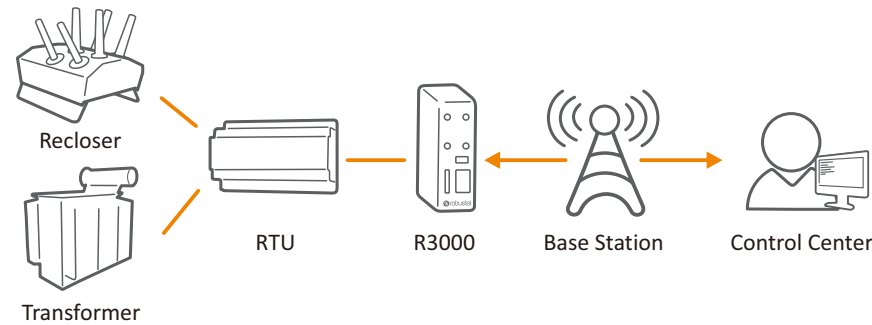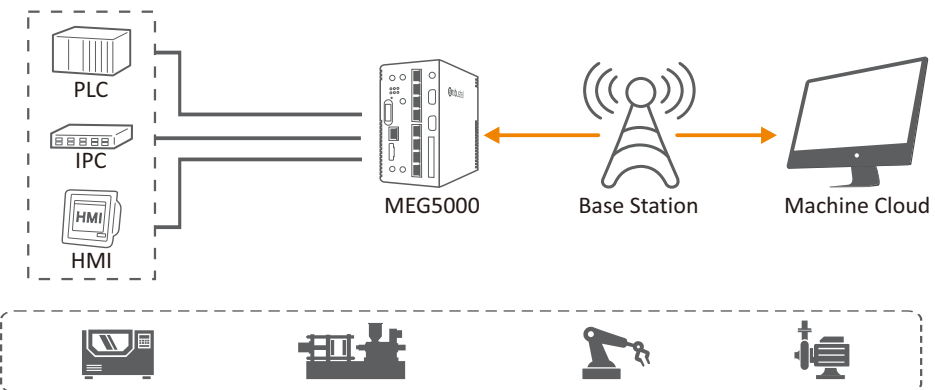
Video Surveillance

Recommend product: R3000 Lite

R3000 Lite Dual SIM router in combination with 3G/4G coverage provides a reliable and continuous communication for real time monitoring. The rugged design makes sure it can work stably under extreme temperature and humidity. Being programed with always online strategy ensures the router with a strong enough connection in remote harsh area.

Water Management

Sensor — Pump — Valve → RTU → R3000 Lite → Base Station → Control Center

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Recommend product: MEG5000

Through edge computing, the Modular Industrial Edge Gateway MEG5000 can collect, analyze and act on data more efficiently, and supports data optimization which is vital for analysis and predictive maintenance.

PLC — IPC — HMI → MEG5000 → Base Station → Machine Cloud

Industrial Automation

Recommend product: R2000

R2000 Ethernet VPN router combinds with advanced 4G LTE technology provides a wide band communication and confidential tunnels for remote on-site Kiosk. Java programming design makes R2000 could be easily adopted by different software application. With optional configuration, R2000 could offer powerful Wi-Fi connection for nearby terminals and on field maintenance.

Self-service Kiosk

Vending Machine — ATM — Digital Signage → R2000 → Base Station → Control Center

R2000 Cellular Routers

Model		Cellular	SIM	Cellular Antenna	Ethernet	Serial	Voice	USB	I/O	MicroSD	POE	LED Indicators	GPS	Wi-Fi	Power Supply Input Range	Mounting	Dimension Weight	Operating Temperature	Approval	Software	Firmware Upgrade	RobustLink Cloud
R2000-3P		3G HSPA+	2	2	2 x LAN or 1 x WAN 1 x LAN	N/A	N/A	N/A	N/A	N/A	Optional, 1 x PD port 802.3at	6 includes RUN, PPP, USR, 3 x RSSI	N/A	Optional, supports AP and Client mode	9 to 26 VDC or 9 to 36 VDC	Din-Rail Wall-Mount Desktop	127.5 x 82.5 x 29.5 mm, 305g, Metal housing	-25 to +70°C	CE, RCM, RoHS, WEEE, EAC,CCC	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ SMS/ RobustLink	RobustLink
R2000-4L		4G TDD/FDD LTE																				
R2000-D3P1		3G HSPA+	2	2	1 x WAN 4 x LAN	N/A	N/A	N/A	1 x DI (ACC)	N/A	max 4 x POE ports (30w each), 802.3at/af	12 includes 1 x RUN, 2 x PPP, 1 x USR, 2 x NET, 6 x RSSI	N/A	Supports AP and Client mode	9 to 57 VDC (48 to 57 VDC for POE)		145 x 130 x 46 mm, 750g, Metal housing		CE, RCM, RoHS, WEEE,EAC	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ SMS/ RobustLink	
R2000-D3P2				4																		
R2000-D4L1		4G TDD/FDD LTE		2																		
R2000-D4L2				4																		
R2000-E4L1		4G TDD/FDD LTE	2	2	1 x WAN 4 x LAN	1x RS232 or RS485 (RJ-11 port) / 1 x FXS (RJ-11 port) — Choose one only		1 x USB host	N/A	N/A	Optional, 1 x PD port 802.3at	11 includes 1 x RUN, 1 x NET1, 1 x NET2, 1 x USR, 1 x RSSI1, 1 x RSSI2, 5 x Ethernet	N/A	Supports AP and Client mode	9 to 36 VDC		193 x 113 x 32 mm, 695g, Metal housing		CE, RCM, RoHS, WEEE	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ SMS/ RobustLink	
R2000-E4L2				4																		
R2110-4L		4G TDD/FDD LTE	2	2	1 x WAN 3 x LAN	1x RS232 or RS485	N/A	1 x USB host	1x DI 1 x DO	N/A	Optional, 1 x PD port 802.3at	4 includes 1 x RUN, 1 x Modem, 1 x USR, 1 x RSSI, 1 x NET, 1 x WiFi	Optional	Supports AP and Client mode	9 to 36 VDC		100 x 125 x 48 mm, 500g, Metal housing	-20 to +55°C	RoHS, WEEE	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ SMS/ RobustLink	

Smart Industrial IoT Gateway

Model		Cellular	SIM	Cellular Antenna	Ethernet	Serial	USB	I/O	MicroSD	LED Indicators	GPS	Wi-Fi	Power Supply Input Range	Mounting	Dimension Weight	Operating Temperature	Approval	Software	Firmware Upgrade	RobustLink Cloud
M1200-3P		3G UMTS/HSPA+	2	1	N/A	1 x RS232 1 x RS485	1 x mini USB	2 x DI, 1 x DO	N/A	2 includes 1 x RUN, 1 x RSSI	N/A	N/A	9 to 36 VDC	Din-Rail Wall-Mount Desktop	85 x 75 x 28.5mm, 106g, Plastic housing	-40 to +75 °C	CE, WEEE, RoHS	• IP protocols: PPP, TCP, UDP, ICMP, DDNS, SNTP, Telnet • Serial port: TCP client/server, UDP, Modbus RTU to Modbus TCP, Virtual COM (COM port redirector) • RobustLink: Centralized M2M management platform	Serial/TCP	RobustLink
M1200-4L		4G FDD LTE																		
M1200-4M		Cat.M1/Cat.NB1																		

IP67 Housing

Model		Cellular Antenna	Ethernet	Serial	POE	GPS	Wi-Fi	Power Supply Input Range	Mounting	Dimension Weight	Approval	Lora interface
TPH6700-R2000		2	2	N/A	Optional, 1 x PD port 802.3at	N/A	2	POWER port - 100 - 240 V, 50-60 HZ AC input 9 - 60 V DC input (9 - 36 V DC for R2000/R2000 Ent/R3000 Lite) POWER OPTIONAL - 15 - 18 V for new energy input 48 - 57 V for POE input	Wall Mounting, Pole Mounting	310 x 245 x 93.4 mm, 1010g (Housing)	CE, RCM, Ip67, RoHS, WEEE	N/A
TPH6700-R2000E		2/4	5				2					
TPH6700-R3000		2	2	2	N/A	Optional	1					
TPH6700-R3000L		2	1	1		N/A	N/A					
TPH6700-R3000LG		2	2	1		Optional	N/A					1

Category		Model	Cellular	SIM	Cellular Antenna	Ethernet	Serial	CAN	Voice	USB	I/O	MicroSD	POE	LED Indicators	GPS	Wi-Fi	Power Supply Input Range	Mounting	Dimension Weight	Operating Temperature	Approval	Software	Firmware Upgrade	RobustLink Cloud
R3000 Cellular Routers	R3000	R3000-3P	3G UMTS/HSPA+	2	2	2 x LAN or 1 x WAN 1 x LAN	1 x RS232 & 1 x RS485 or 2 x RS232 or 2 x RS485				4 x I/O	1		6 includes RUN, PPP, USR, RSSI, NET, SIM	Optional	Optional, supports AP and Client mode	9 to 60 VDC		125 x104 x 43.5 mm, 570g, Metal housing		CE, FCC, PTCRB, GCF, AT&T, IC, Rogers, RCM, E-Mark, NBTC, RoHS, WEEE, EAC, Anatel, TRA, Telec/NTT Docomo, IMDA, Vodafone	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ USB/SMS/ RobustLink	
		R3000-4L	4G FDD LTE/ TDD LTE	2	2																			
		R3000-NU	N/A	N/A	N/A																			
	R3000 Quad	R3000-Q3PB	3G UMTS/HSPA+	2	2	4 x LAN or 1 x WAN 3 x LAN	1 x RS232 or 1 x RS485 software optional	N/A	N/A	1 x USB host	N/A	1	N/A	6 includes RUN, PPP, USR, RSSI, NET, SIM	Optional	Optional, supports AP and Client mode	9 to 60 VDC	Din-Rail Wall-Mount Desktop	125 x104 x 43.5 mm, 570g, Metal housing	-40 to +75°C	CE, RCM, RoHS, WEEE, EAC, Telec/NTT Docomo	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ USB/SMS/ RobustLink	RobustLink
		R3000-Q4LB	4G FDD LTE/ TDD LTE	2	2																			
		R3000-QLB	N/A	N/A	N/A																			
	R3000 Lite	R3000-L3H	3G UMTS/HSDPA	2	1	1 x LAN	1 x RS232 & 1x RS485				N/A	N/A		6 includes RUN, PPP, USR, 3 x RSSI	N/A	N/A	9 to 36 VDC		105 x 98 x 29.5 mm, 305g, Metal housing		CE, FCC, RCM, RoHS, WEEE, EAC, Telefonica, iDA, Postel, NBTC Telec/NTT Docomo, EAC	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ USB/SMS/ RobustLink	
		R3000-L3P	3G UMTS/HSPA+	2	2																			
		R3000-L4L	4G FDD LTE/ TDD LTE	2	2																			
	R3010	R3010-4L	2G/3G/4G	2	2	2 x LAN or 1 x WAN 1 x LAN	1 x RS232 1 x RS485	1	1		N/A	N/A		7 includes RUN, MODEM, USR, PWR, 3 x RSSI	N/A	N/A	9 to 26 VDC		134 x 98 x 32mm, 570g, Metal housing		CE, FCC, IC, PTCRB, AT&T, RoHS, WEEE	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ SMS/ RobustLink	
Industrial LoRaWAN Gateway	R3000 LG	R3000-LG4L	2G/3G/4G	2	2	2 x LAN or 1 x WAN 1 x LAN	1 x RS232 or 1 x RS485	N/A	N/A	1 x USB	2 x DI	1	N/A	6 includes RUN, MODEM, USR, RSSI, NET, SIM	Optional	N/A	9 to 60 VDC	Din-Rail Wall-Mount Desktop	125 x 104 x 43.5mm, 570g, Metal housing	-40 to +75°C	WEEE,RoHS, CE,RCM	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ SMS/ RobustLink	RobustLink
		R3000-LGNU	N/A	N/A	N/A																			
Modulor Edge Gateway	MEG5000	MEG5000-4L	2G/3G/4G	2	2	1 x WAN 8 x LAN	2 x RS232 1 x RS485	1	N/A	N/A	2 x DI 2 x DO	N/A	N/A	7 includes MODEM, USR, 3 x RSSI 1 x RUN (Main control card), 1 x RUN (Expansion Card 2)	Optional	Optional, supports AP and Client mode	12 to 60 VDC	Din-Rail Wall-Mount Desktop	157 x 145 x 89mm, 1600g, Metal housing	-40 to +65 °C/ -10 to +65°C (with Wifi)	WEEE,RoHS	VPN/RobustVPN Routing Protocol Firewall SDK + APP	Web/CLI/ SMS/ RobustLink	RobustLink
		MEG5000-NU	N/A	N/A	0																			