Hitelecom®

IoT Controller & RTU
HD20-1000 Series

Acquire field data.
Coordinate equipment control.



KEY INDICATORS

Field I/O
DO / DI / AI
Selected configuration

Control modes
Local / remote
Condition-based

Protocol support
Modbus TCP
Project-defined roles

Remote servicing
Configuration
Firmware upgrades

Cloud workflow
Online data
Threshold alerts

OVERVIEW

The Hitelecom HD20-1000 series combines field data acquisition, monitoring and control in a 4G LTE RTU. Select the DO, DI and AI arrangement and compatible serial connections for the project. Edge processing, local/remote/condition-based control, Modbus TCP integration and master/slave working roles support the configured workflow. View uploaded monitoring data online in Hitelecom Cloud and receive alerts when configured thresholds are exceeded. Remote configuration, firmware upgrades and dual watchdogs support maintenance and recovery.

KEY FEATURES

Configurable field I/O
Select digital outputs, digital inputs and analogue inputs against the project point list and supplied electrical specification.

Edge and control
Acquire field measurements and apply the agreed local, remote or condition-based control arrangement.

Modbus TCP integration
Define supported communication roles, point mapping and permitted operations for the configured integration.

Cloud monitoring
View uploaded monitoring data online in Hitelecom Cloud and receive alerts above configured thresholds.

Remote servicing
Adjust supported settings and upgrade approved device firmware remotely, following the installation maintenance procedure.

Dual watchdogs
Hardware and software watchdogs support recovery from defined abnormal operating states. Verify reset and restart behaviour.

APPLICATIONS


Vending & Self-Service


Smart Shelving & Retail


PLC & Existing Controls


Environmental Monitoring


Agriculture


Unattended Stations


Industrial Equipment


Transport Facilities

Representative application environments. Eight areas cover 40 website tasks; these are selection examples, not a channel count.

Item		Description
Identity	Product family	HD20-1000 Series IoT Controller / RTU.
	Product illustration	Original 4G LTE RTU series illustration. The final ordering code follows the supplied configuration.
Field I/O	DO / DI / AI	Project-selected configuration. Confirm fitted quantities, electrical types and point allocation for the ordered version.
	Signal and load limits	Obtain input thresholds, analogue ranges, output topology, permitted load and approved wiring schedule.
Serial	RS232 / RS485	Serial connection references. Confirm fitted ports, electrical arrangement, serial settings and supported device data definitions.
Protocol	Modbus TCP	Supported for the configured integration. Confirm network path, device roles, data map and permitted operations.
	Working roles	Master/slave working modes; define the roles and supported exchanges for the selected installation.
Cellular	4G LTE	Select the regional module, frequency bands, antenna arrangement and SIM service.
Platform	Hitelecom Cloud	View uploaded monitoring data online; receive alerts above configured thresholds.

I/O quantities are configuration-specific. Modbus TCP support does not by itself establish a physical Ethernet port, protocol conversion or automatic device discovery. Obtain the approved terminal and connection schedule before wiring.

DEPLOYMENT & OPERATING DETAILS

Item		Description
Control	Operating modes	Local, remote and condition-based control. Agree triggering conditions, priorities, permitted commands and equipment feedback.
Remote	Configuration and upgrades	Remote configuration of supported settings and remote firmware upgrades. Verify the delivered configuration after maintenance.
Reliability	Recovery support	Hardware and software watchdogs. Confirm reset, reconnection, restart and configured output behaviour.
Electrical	Power and interfaces	Obtain rated supply, polarity, consumption, interface quantities and electrical limits for the ordered version.
Deployment	Installation and environment	Confirm mounting, dimensions, ingress protection and environmental limits for the supplied configuration.
Integration	Measurements and commands	Define instrument identity, units, source scaling, point mapping and permitted actions separately.
Conformity	Product documentation	Obtain applicable model- and destination-specific declarations or test records.

Match instruments and load-control circuits to the supplied electrical specification. Do not infer a relay output rating, 4-20 mA signal direction, loop power, isolation or a pin assignment from an illustration label alone.

Specify acquisition and reporting requirements separately. Data availability and notification timing depend on the configured reporting profile and network connection.

Verify physical equipment response or instrument readback separately from a control command. Retain equipment sequencing, local priorities, interlocks and independent protection; confirm lost-link and restart behaviour during commissioning.

DATA & CONTROL WORKFLOW



Integration path. Fitted interfaces, Modbus TCP roles, point mapping, permitted commands and recovery checks follow the supplied device and project configuration.

Tel: +86 18616602589 / Web: www.hitelecom.com

Email: sales@hitelecom.cn

Add: 2nd Floor, Building 1, No. 116 Cheyang Road,
Songjiang District, Shanghai, China