ECL-EHS5



GPRS/EDGE/3G Java Terminal

ECL-EHS5 has been developed for machine-tomachine (M2M) and telemetry solutions, communicating over cellular telecommunication network for reading, monitoring and controlling functions.

Can be used for many solutions with the help of integrated Java[™] Application Platform. Builds a transparent communicaiton platform between field devices via serial ports and remote servers or applications over 2G and 3G.

The theoretical limit to one RS485 port connection of a terminal is up to 255 field devices in a distance of 1,2 km.

Different types of data input can be processed through JAVA platform applications via serial port connections on field devices, digital inputs/ outputs and optional sensors.

With the over the air (OTA) protocol, application software and firmware can be updated remotely. Therefore updates, upgrades and troubleshooting can be done remotely without the need to go to the field.

It has integrated hardware watchdog feature which protects the device against hardware and firmware crashes.

Real-time clock feature can be used for timestamp applications.

AMI firmware, developed on JAVA J2ME platform is installed specially for AMI applications. Runs as a transparant device to transmit the queries of the central AMI software and simultaneously runs as a field device to read the meter and transmit data to central AMI software.



Can change the serial port speed according to IEC1107 Mod C. So it can attune itself to the meter speed while reading data and provides fast reading.

To establish secure data transfer, IP addresses, phone numbers, and SMS numbers can be restricted on the device. A secured server address can be specified for firmware update where the downloadable content will be controlled and update can commence automatically.

Configuring and reconfiguring, parameter changes etc. can be done via serial interfaces locally or over 2G/3G remotely. During the communication, it will initiate ID and password control/ authentication.

ECL-EHS5 and the AMI firmware is 100% compatible with TeleMetriX AMI Head-end system. Remote control via TeleMetriX can be done easily.

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Physical Specifications

- Size : 98 x 101 x 60 mm
- Weight : ~300 gram
- Sealable Terminal Cover

Environmental Spesifications

• -40 ... +85°C operating temperature

Power Input

- 100 ... 240 VAC or 9 VDC-48 VDC
- 6 KV Impact Resistance

Wireless Features

- Dual Band UMTS (WCDMA/FDD) 900/2100 Mhz (EU) 850/1900 Mhz (US)
- Dual Band GSM
 900/1800 Mhz (EU) 850/1900 Mhz (US)
- GPRS/EDGE Class 12 HSDPA Cat.6-8
- 7.2 Mbps DL, 5.76 Mbps UL (HSDPA, HSUPA)
 237 kbps DL, 237 kbps UL (EDGE Class 12)
 85.6 kbps DL, 237 kbps UL (GPRS Class 12)
- CSD 9.6 kbps V.110
- SMA Antenna Connector
- Easy use push-n-eject SIM card connector
- Dual SIM and Embedded SIM Support (optional)
- Fully compatible with all GSM operators
- RLS Monitoring (Jamming Detection)

Serial Interfaces

- 1 x RS485 Interface
- 1 x RS232 or RS485 Interface (Optional)
- 300bps 460kbps communication speed
- 7E1, 701, 8N1, 8E1, 801 frame
- RS485 Automatic Data Direction Control

Other Inputs/Outputs

- 2 x 250 VAC 2A Relay Output (NC/NO/Shared)
- 3 x Dry Contact Input (Standart)
- 3 x Additional Dry Contact Input (Optional only for models without RS232 port)

Other Hardware Features

- ARM Microprocessor
- Real Time Clock (RTC)
- Built in Flash Memory
- Hardware Watchdog
- 2G/3G LED Status Indicator
- Multi SIM support, supports both M2M SIM and Regular SIM
- Integrated TCP/IP Stack, UDP/TCP/DNS/Ping/ HTTP/FTP support
- Can send alerts to central server by the help of supercapacitor in case of power cut-off (Optional)

JAVA Features

- Java™ ME 3.2
- Secure data transmission with HTTPS/SSL
- JAVA OTAP Remote Application Updates

Application Features

- Java applications for AMI solutions
- Push/Pull/Poll communication
- Configuration via Serial Cable, 2G/3G, CSD or SMS
- Firmware update over 2G/3G
- Ability to restrict IP / Port / Phone numbers
- Trasparent communication / gateway
- Direct meter reading and transmit meter data to server/central software
- IEC1107 Mod C automatic speed change
- ID and password authentication
- Detailed event log and troubleshooting
- TCP/IP Server and Client Mode
- Saving readout data on flash memory and prevent data loss
- Server or GSM network based time synchronization