GridEx®

Explorer • Analyzer • Test Tool

Sets you in control of your Smart Grid IEC 61850 networks
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- Easy to use: plug, explore and analyze
- Instant start-up
- Customized and robust embedded system
- No computer needed
- Accurate timing analysis, time synchronization
- Supports your investigations, flexible connections
- Troubleshooting and maintenance
- Compare station SCL file vs reality
- Advanced aid and support: error detection, inconsistencies, warning explanation, helpful comments and recommendations, valuable information

GridEx® Bridges the gap between the worlds

- Multimeter
- Secure connection
- Aided maintenance
- Bridge the Gap IT / Power
- Compare Reality vs SCL

GridEx™ Supports your investigations, flexible connections

Accurate timing analysis, time synchronization

No computer needed

Customized and robust embedded system

Instant start-up
GridEx Series™

Technical Specifications

Ethernet ports
Two separate 100 Mbps Ethernet ports (ETH1 and ETH2) for both optical or electrical connection
- Optical port for LC connector (multi mode fiber)
- Electrical port for RJ45
ETH2 ports allow in-circuit (point to point) connection

USB ports
Three USB ports for connection of external devices such as storage of data and mouse
- USB 2.0 type A

Time Synchronization
- BNC connector for 1PPS time synchronization input signal
- SNTP client functionality
- IRIG-B via accessory
- IEEE 1588 via accessory

Binary inputs (GridEx 120 only)
Three galvanic isolated binary inputs.
Sensitive to DC voltage (voltage sense) and/or free contact position (contact sense). Protected against wrong connection.
- Voltage sense max 250 V DC, threshold ~12 V DC
- Contact sense: output voltage 19 V DC, current 15 mA

Binary outputs (GridEx 120 only)
Five independent normally open solid state outputs.
Protected against wrong connection. Built-in current limiter.
- Rated voltage range 48 – 220 V DC
- Current carrying capacity continuous 200 mA DC

IEC 61850
SCL file importing
All Ed.1 & Ed.2 SCL files are supported

Simulation GOOSE
Ed.1 test GOOSE supported
Ed.2 simulation GOOSE supported

Mappable GOOSE to binary outputs
Single-/double indication, Protection applications

Sampled Values (SV)
According to IEC 61850-9-2 LE

Environment
Operating temp. 0°C to +50°C (32°F to +122°F)
Storage temp. -20°C to +70°C (-4°F to +158°F)
Humidity 5% – 95% RH, non-condensing

CE-marking
EMC 2004/108/EC , LVD 2006/95/EC

General
Internal storage 4 GB solid state, Memory 1GB DDR3
User interface 8,4” touchscreen
Power input 24V DC max 1.25A
Dimensions 265 x 212 x 56 mm (10.4 x 8.5 x 2.2”)
Weight: 2.4 kg (5.3 lbs.)
3.4 kg (7.5 lbs.) with accessories and case
Stainless steel with clear coating for electrical insulation

GridEx Excellence™

Standalone
8,4” Touch screen
3 USB ports: Storage, Mouse
1+2 ETH ports RJ45 / FO LC
Time sync 1PPS

Grinded stainless steel
Back stand 45°

Ordering information
GridEx 110, soft case, power adapter
14001-ww-I10
GridEx 120, I/O board, soft case, power adapter
14001-ww-I20
GridEx 120, I/O board, full package
14001-ww-I21

Accessories
Hard case
14001-ww-HC1
IRIG-B via external accessory (available in 2016)
14001-ww-IR1
IEEE1588 via external accessory (available in 2016)
14001-ww-IE1
Extern GPS synchronized Clock (available in 2016)
14001-ww-GP1
Fiber Optic Multimode cable LC/LC Duplex 3 m (10ft)
14001-ww-FO1
Fiber Optic Multimode cable LC/ST Duplex 3 m (10ft)
14001-ww-FO2
Fiber Optic Multimode cable LC/SC Duplex 3 m (10ft)
14001-ww-FO3
Set of banana cables (10pcs)
14001-ww-TL1

Software update and service programs available – Be Always updated and maximize uptime - Please ask your local reseller