



- IEC 62351 Cyber security compliance
- IEC 61850-3 EMC compliant
- IEC 61131-3 PLC automation programming
- IEEE 1588 and NTP time synchronization
- Microseconds timestamp resolution and high accuracy RTC with 1.5 ppm time drift
- Two separate Ethernet interfaces with independent MAC address and multiple IP address configuration
- Internal switch with HSR /PRP /RSTP redundancy
- Multiple communication media support (Serial, 10/100TX Ethernet, FX100 Ethernet, GPRS, 3G & 4G modems)
- Support for VLAN and VPN connections
- Data Concentrator - Gateway
- Bay Control Unit - BCU

|  |                                      |                                                                                                                                                                                                                                                                                                                                                                                                   |
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|  | Configuration & Maintenance          | Easy configuration with iConf tool<br>Internal web server, allowing the real-time monitoring of the system and all internal parameters<br>Command console with complete information of packet exchange, on all available protocols<br>Local or remote maintenance connection using USB or Ethernet ports                                                                                          |
|  | RTC                                  | High accuracy real-time clock with 1.5 ppm drift and microseconds resolution timestamp                                                                                                                                                                                                                                                                                                            |
|  | CPU Features                         | ARM Cortex-A7 @ 528MHz, with 4GB Flash and 256MB RAM                                                                                                                                                                                                                                                                                                                                              |
|  | Communication Ports Options          | Serial ports: up to 4 ports with RS-232/RS-485/RS-422 selectable by software<br>Wireless connection: internal 4G(LTE), 3G and GPRS modem<br>Ethernet: (2) 10/100BaseTX ports with independent MAC addresses<br>Internal Ethernet Switch: up to (4) 10/100BaseTX ports with RJ45 connection and (2) FX100 with ST, SC connectors or SFP interface, and supporting RSTP, HSR and PRP configurations |
|  | Time Synchronization                 | Server: NTP, IEC 60870-5-101, IEC 60870-5-104, DNP 3.0, NTP<br>Client: IEEE 1588(PTP), SNTP, IEC 60870-5-101, IEC 60870-5-102, IEC 60870-5-103, IEC 60870-5-104, DNP 3.0, DLMS, Procome and Profibus DP                                                                                                                                                                                           |
|  | Redundancy                           | Hot-standby configuration, including optional redundant power supply                                                                                                                                                                                                                                                                                                                              |
|  | Security                             | IEC 62351-3 and IEC 62351-5 support, including TLS/SSL, SSH and VPN connections                                                                                                                                                                                                                                                                                                                   |
|  | IEC 61131-3 Automation               | Logic and PLC programming, with LD, FBD, ST and SFC editor                                                                                                                                                                                                                                                                                                                                        |
|  | Logical and Mathematical Expressions | LUA language to create simple or complex logic and mathematical expressions                                                                                                                                                                                                                                                                                                                       |
|  | Power Consumption                    |                                                                                                                                                                                                                                                                                                                                                                                                   |
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