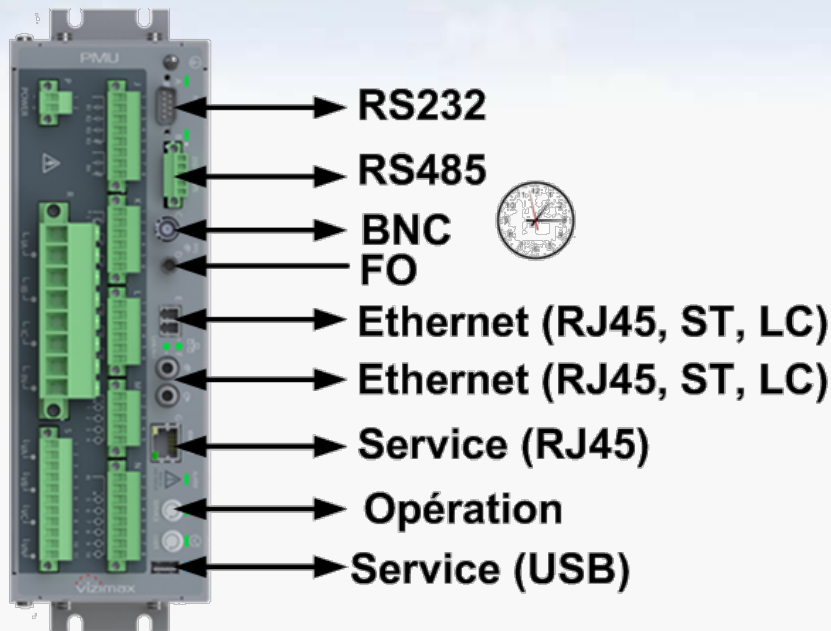


THE « xMU » PRODUCT LINE

- A robust hardware platform that is designed and built to IEC standards
- Precise synchronized measurements of power signals
- Provides status and control of the equipment
- Communication architecture meeting all the new industry standards

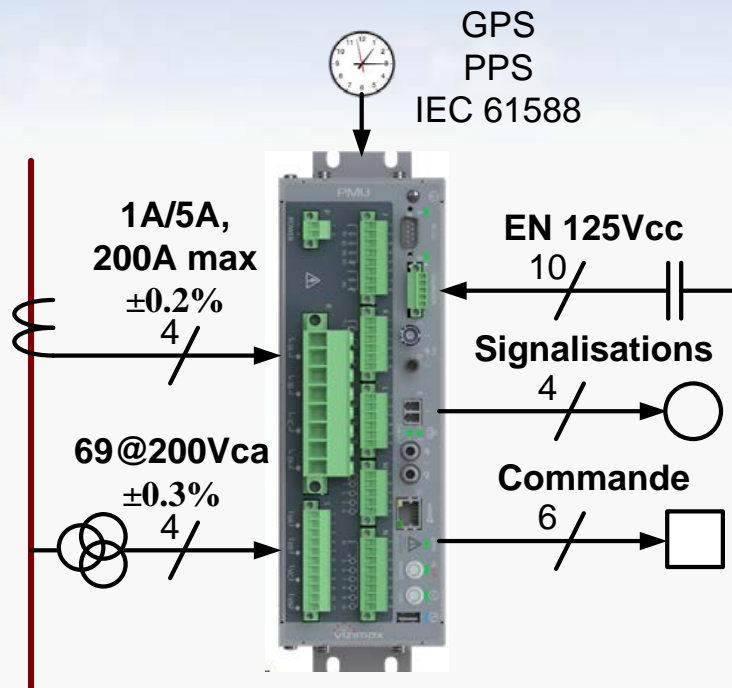


COMMUNICATIONS



- Supports local or remote communications
- Redundant Ethernet connections either metallic or fiber (ST or LC)
- Interfaces for configuration and maintenance (USB, Ethernet or serial port)
- Highly accurate time Synchronization

MEASUREMENT AND CONTROL



- **Analog measurements:**
 - Sampling between 12K to 19.2k per second per channel
 - Sampling time accuracy to 100ns
- **Digital Inputs**
 - Equipment status, alarms
 - Timing accuracy of 0.1ms
- **Relay outputs**
 - Dry contacts used for alarming
- **Control outputs (breakers, etc..)**
 - High speed static outputs: 5A, 35A@200ms

THE POTENTIAL APPLICATION AREAS

- **PMU : Phasor Measurement Unit**

Designed to be used within the different sectors of a utility (generation, transmission and distribution).

Grid stability and Power Quality monitoring

Renewable generation within transmission or distribution

Advanced automation/protection schemes



- **AMU : Analog Merging Unit**

Integration of conventional CTs and PTs into a 61850 architecture

VIZIMAX PMU BENEFITS

- Very strong in rejecting harmonic components
- Performs very well in stressed power systems
- Unique capabilities for use in power quality applications
- The output of the algorithms can also be used in intelligent protection and control schemes, special protection schemes, etc.
- Because of its resilience to harmonics, provides an ideal approach that can be used for single phase applications, micro grids and power islands.



VIZIMAX SOLUTIONS & PLATFORMS (RECAP)

- **CSD Intelligent & Fast Switching + CB Monitoring**
- **Pole-Top Intelligent RTU (ITU)**
 - Offload the SCADA & Communication Network
- **FDIR**
- **Software-Controlled Energy Device Mgt.**
 - Configure and Send Commands to Breakers, Switches, Reclosers, etc.
- **IPP Intelligent Control for Utilities**
- **Data Capture & Communication**
 - Roads & Bridges - Environmental Data Capture & Communication
 - Railways Transport - Signaling & CSD Energy Management
 - Water & Waste Treatment - Key Data & Environmental Measurement
- **Substation Automation**
- **Communication Protocol Conversion Gateway**
- **Converts conventional PT, CT, PVT in samples values to the process bus**



SynchroTeq : Controlled Switching Device for HV&MV C/Bs



RightWON: Rugged & Scalable, full IEC61850 automation platforms



AMU: Analog Merging Unit
IEC 61850-9-2LE compliant device



PMU: Phasor Measurement Unit
IEEE C37.118 (2011) compliant