



ADVANCED REMOTE TERMINAL UNIT

#Energy



aselsan



ADVANCED REMOTE TERMINAL UNIT

ARTU - Advanced Remote Terminal Unit is a rack based advanced RTU for various applications with a modular and expandable system architecture.

Application Areas

- Electrical Transmission and Distribution Networks
- Oil & Gas Transmission and Distribution Networks
- Water Networks
- Railway Systems
- Power Plants

Typical Applications

- SCADA and Telecontrol Applications
- Oil, Gas, Water and Electricity Control Systems
- Railway Monitoring and Management
- Energy Management and Distribution Management Systems
- Wide Area Monitoring Systems (WAMS)
- Power Quality Monitoring
- Synchrophasor Applications
- Substation Automation

Features

- Multiple Communication Protocols
 - IEC 60870-5-101/104
 - IEC 61850
 - DNP3
 - Modbus TCP
 - Modbus RTU
 - MQTT
 - IEEE C37.118-2
- Accurate Time Synchronization
 - GPS (Global Positioning System)
 - PTP (Precision Time Protocol)
 - NTP (Network Time Protocol)
 - Protocol (IEC 60870-5-101/104, DNP3)
 - RTC (Real Time Clock)
- Gateway Functionality
- Scalability With Expansion Modules

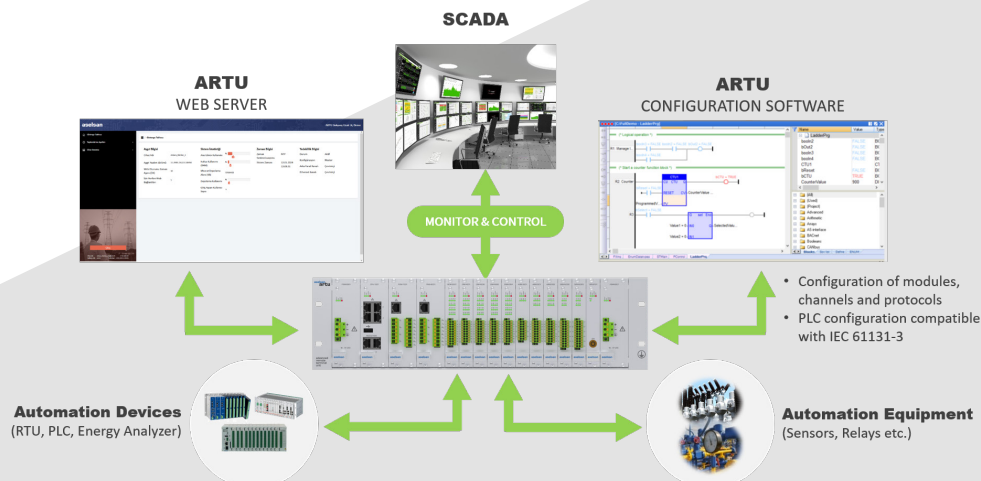
- High Availability
 - Redundant Power Supplies
 - Redundant I/O Modules
 - Redundant CPU and Communication Channels
- Hot Swap Capability for I/O modules
- User Friendly Cabling
- Internal Web Server
- PLC configuration Compatible with IEC 61131-3
 - SFC (Sequential Function Chart)
 - FBD (Function Block Diagram)
 - LD (Ladder Diagram)
 - ST (Structured Text)
 - IL (Instruction List)
- Synchrophasor Measurement (IEEE C37.118-1)
- Power Quality Measurement (IEC 61000-4-30 Class A)
- Power System Local Analysis

General Specifications

- Mechanical Specifications
 - 3U - 19" Rack / Wall Mount (21 slot)
 - 3U - 10" Rack / Wall Mount (10 slot)
- Operating Temperature : -25°C / +55°C
- Storage Temperature : -40°C / +70°C
- IEC 60068 Environmental Conditions Compliance
- IEC 61000-4 EMI/EMC Compliance

Modules

- Processing Module (CPU)
- Analog Input Modules (AIM)
- Analog Output Modules (AOM)
- Digital Input Modules (DIM)
- Digital Output Modules (DOM)
- Power Supply Module (PSM)
- Power Quality Measurement Module (PQM)
- Synchrophasor Measurement Module (PMU)
- GPS Module (GPS)
- Expansion Modules (EXP)
- Temperature Module (RTD)



Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$.

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