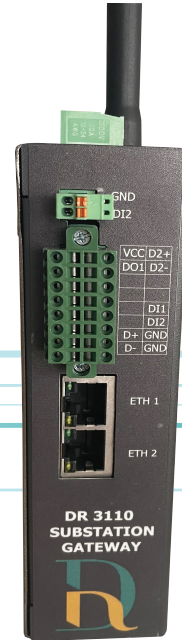


SUBSTATION GATEWAY DR 3110



INTRODUCTION

Substation automation gateway integrates with various endpoints like energy meter, Feeder, protection relay, numerical relays, Dc meter, station transformer, PLC, and any other edge device where RS 232 or RS 485 data is available Modbus. Our gateway offers Unique data aggregation & formatting, Protocol conversion, and security. Our SS Gateway is designed with a small form factor and is suitable for deployment in various environments. It also has wired and wireless connectivity options, which allow both variety and scalability of endpoints.

Digitech Substation Gateways are entirely customizable from board-level architecture to ensure interoperability between embedded Linux systems for easy deployment. Our gateways are compatible with a massive ecosystem of solution providers.

BENEFITS

Predictive modeling based on continuous data streams enables data aggregation through automated processes that reduce errors.

Using better API management, our SS Gateway integrates well with enterprise IT Systems and OT systems.

It is compatible to work with frameworks of all cloud service vendors.

Any protocol conversion is available, ASCII, MODBUS, IEC 60870-5-101, IEC 60870-5-104, IEC 61850,

MAIN FEATURES

- NXP iMX 6ULL Cortex A8 600MHz CPU with DDR3L 256MB RAM
- Support web service for remotely on-line monitoring
- Firmware update by SD card and online update
- Data logger / protocol converter
- Support single SIM slots for communication redundant
- Support IEC 101, IEC 104, IEC 61850 (Optional)
- Wide Operating temperature: -40 ~ 70°C

APPLICATION

- AMR (Automatic meter reading)
- Feeder monitoring.
- Transformer monitoring.
- Numerical relay / protection relay aggregation
- DC battery and station transformer monitoring
- Digital Substation application
- Protocol converter
- IIOT Applications

TECHNICAL SPECIFICATION

SYSTEM	
CPU	NXP iMX6ULL Cortex A8, 600MHz
Memory	DDR3L 256MB
Indicators	LEDs for Power, LAN (LINK, ACT), Programmable
Storage	512MB NAND Flash
SD Slot	1 x Micro-SD slot
Watchdog	Yes
Real-time clock	Yes
COMMUNICATION	
Serial Port	Serial Port: 2 x RS232/RS485(isolation optional)
Serial Port Speed	RS-232/RS-485: 50 ~ 115.2 kbps
Ethernet Port	2 x 10/100 Base-T RJ-45 ports
Wireless (Optional)	Interface: 1x Mini-PCIe (Full-size), Type: WIFI/3G/GPRS/4G , Signal: USB
Communication Protocol Drivers	IEC 101,IEC104, IEC 61850, MQTT, Optional IEC 62351
DI /DO	4 DO and 4DO
Data Logger	Real-time datalogger
Database uplink	ODBC / FTP
Programming support	ODBC / FTP
SOFTWARE	
OS Support	Linux Ubuntu / Linux Yacto
ENVIRONMENT	
Operating Temperature	-40 ~ 70 °C
Storage Temperature	-40 ~ 85 °C
Humidity	5 ~ 95 % (non-condensing)
GENERAL	
Mounting	Wall-Mount/ DIN-Rail
Power consumption (typical)	2.4W @ 24VDC
Power Requirements	10 ~ 30 VDC
Dimensions	30 X 92 X 93.50 mm

ORDERING INFORMATION

- DR 3110 Modbus to IEC 104 converter mode

4G SOLUTION (SIM CARD IS NOT INCLUDED)

- DR 3110 - 4G 6-band HSPA Cellular Module with SIM Holder

ABOUT US

Digital Reach enables the IoT devices to interconnect the embedded systems to the internet. The IoT devices are fully programmable as per customer requirements and it can be deployed in nearly all the areas like Manufacturing, Energy & Utility, Health Care, Home Automation, Retail etc. With our expertise in embedded hardware development, embedded software development, system integration, and project execution, we bring in our experience, commitment and team work to exceed our customer expectation in every customer engagement.