

AMI Solution Products

FC2112 Data Concentrator Unit

Overview

The FC2112 Data Concentrator Unit (DCU) is a core technology within Advanced Metering Infrastructure (AMI), designed to deliver reliable, secure, and scalable data aggregation for utility operations. Acting as the central gateway between smart meters and the Head-End-System (HES), the DCU ensure seamless two-way communication, accurate data delivery, and operational efficiency.



Key Features

- Centralized collection and aggregation data from multiple smart meters
- Secure two-way communication between smart meters and HES
- Local data buffering to ensure data continuity
- Remote configuration, monitoring, and firmware upgrades
- Comprehensive event, alarm, and operation log management
- Designed full compliance with SPLN D3.036:2021

Technical Parameters

Parameters	Value
Rated Voltage	3 x 230/400 V
Wiring Method	Three Phase – 4 Wire
Rated Current	5(10) A
Rated Frequency	50 Hz
Accuracy Active	Energy Class 0.5 Reactive Energy Class 2
Power Consumption	Standby Mode: ≤ 10W Active Communication: ≤15 VA
Connector Communication	2x5-pin IDC, 2.54mm pitch
HPLC	
Frequency range	0.2 – 12 MHz
Operating Band / Modulation	0.781 – 2.930 MHz / OFDM
Data Rate / Power Density	93/205 Kbps / ≤ -45 dBm/Hz
Anti Attenuation	20dBμV
RF	
Frequency range	920–923 MHz
Modulation / Data Rate	OFDM / 29.3 - 375 kbps
Max. Transmit Power	24 dBm
Receiver Sensitivity	Up to -115 dBm@29.3kbps