Sciemetric EDGE
412 Dual Carrier

sciemetric
EDGE

Innovative packaging makes it easy to distribute intelligence across the plant

The Sciemetric EDGE 412 Dual Carrier accomodates two EDGE 400 modules in a fanless IP65-rated enclosure that is ready to deploy in harsh industrial environments. Communications and power are provided to the carrier by a single Power over Ethernet (PoE) connection, greatly simplifying wiring and setup. It features a 6 line synchronization bus for modules to share real-time clocking and data.

Highlights

- 2 slots for Sciemetric EDGE modules
- Simplified power and network connections with single PoE cable
- Type 1 PoE powered device (<13 W)
- Hot swap modules
- 6 synchronization bus lines
- Built-in mounting brackets for wall mounting or optional DIN rail mount
- Real time clock for precise time and date stamp

Sciemetric EDGE 412 Dual Carrier. Modules sold separately.

The Sciemetric EDGE Platform

Sciemetric EDGE is a universal industrial analytics platform to help you perfect your process in record time. This distributed data analytics system removes barriers to collecting data, driving productivity improvements and cost savings.

The platform performs digital signal processing and signature analysis to offer in-depth insight into the performance, reliability and repeatability of a broad range of applications. Processing, analytics and control functions are remotely configurable, giving you a centralized management of your distributed operations. It provides industrial operations with a sophisticated, exciting, new way to monitor a process, perform real-time pass/fail control, and gain the visibility needed to optimize and control the overall process.

Technical Specifications

GENERAL

- Dimensions (HxWxD): 102 mm x 36 mm x 180
- Weight: 560 g
- Operating Conditions:
  - Humidity: 10 to 90% RH, non-condensing (IEC 60068-2-56)
  - Shock: 150 m/s^2 per IEC 60068-2-27 Table A.2
  - Vibration: IEC 60068-2-65 spectrum A.1 Category 3
  - Case Temperature: 0-55 °C (for example ambient temperatures please see chart under *Mounting*)
- Pollution degree: 2 maximum
- Maximum altitude: 2000 m
- Approvals: CE, cNEMKOus
- Ingress protection: IP65
- Cooling: Fanless
- Status LEDs: Power and Network Activity
- Real Time Clock

MODULE SLOTS

- Slots: 2
- Voltage: 12 VDC
- Current: 750 mA MAX
- Ethernet: 100 BASE-TX
- Hot swap: Yes
- Sync bus lines: 6 lines 1:1 between modules
- Slot ID Information: model, serial number, slot, hardware revision
- Chassis ground: #6-32 screw
- Fastener screw torque: 2-4 in-lbs

POWER OVER ETHERNET

- Typical: 2 W with no modules
- Maximum: 12.95 W

One Tool for Management, Setup and Analysis

Sciemetric Studio offers comprehensive capabilities for monitoring and control of industrial applications. Manage Sciemetric EDGE Systems through discovery, sensor calibration, application deployment, and software updates. Manage applications through configuration of tasks, features, parameters and variants. Leverage continuous improvement through data-driven insight with analytics such as feature, waveform and image trending, correlations and statistical reports.
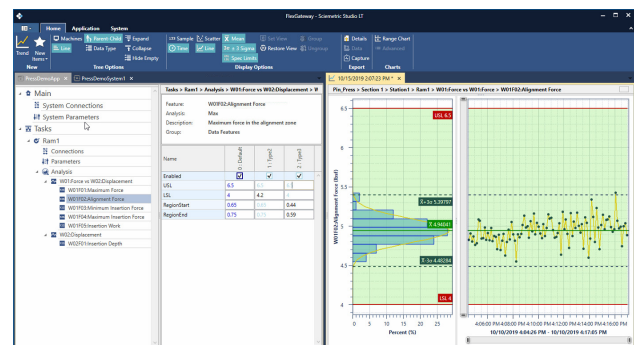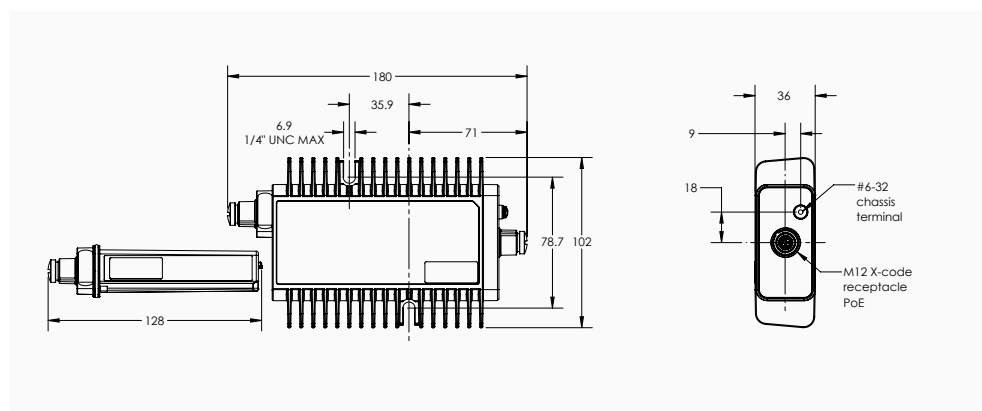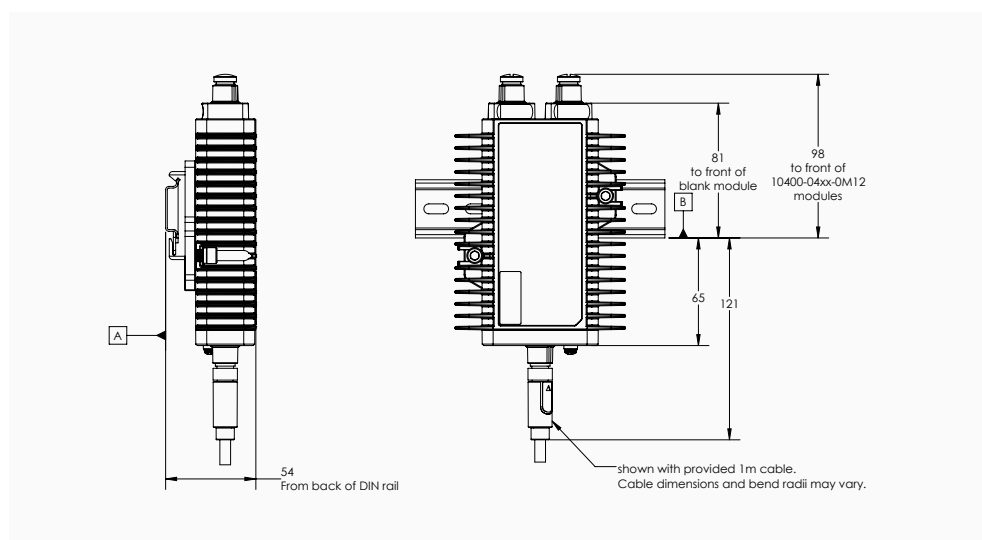
Mounting Information

The Sciemetric EDGE 412 can be wall-mounted (standard) or DIN rail-mounted (optional). Thermal performance varies with mounting, air flow and module power consumption. Typical maximum ambient temperatures with two modules installed are as follows:

Installation	Typ Max Ambient Temperature
Desk	38 °C
DIN mount	43 °C
Machine mount (conductive plate)	43 °C
Forced Convection	52 °C

Wall Mount

DIN Rail Mount

Ordering Information

Products

Item	Part number	
Sciemetric EDGE 412 Dual Carrier, Power Over Ethernet, X-Code M12, includes 1m X-code to RJ45 cable	**10400-0412-0M12**	
DIN Rail Mount for Model 412 Carrier	**10400-AM0A-000A**	
Model 400 – Blank Module, required if a single System 400 module is used in a 412	**10400-0400-0001**	

Other

Item	Part number	
Antaira 8 port Industrial PoE network switch, 12 to 36 VDC supply required	**10400-AS0A-0008**	