Intwine Connected Gateway – ICG x86

Front

Rear

Product Features

- **Compact Industrial Computer**
- **Dual or Quad Core processing**
- **Dual Gigabit Ethernet**
- **Ships with Ubuntu 20.04.2 LTS**
- **CE, FCC 47 CFR Part 15**
- **Operating Temperature (0 to 50°C)**

The Intwine Connected Gateway (ICG) x86 is designed for dedicated industrial connectivity applications.
It's small form factor and fanless hardware makes it perfect for environments where computing equipment is subject to dust, debris, chemicals, and/or moisture.
Can be paired with the ICG-200 and ICG-150 gateways for 4G LTE cellular network access, with the Intwine Remote Management Portal for centralized control, monitoring, and automation.

Standard Hardware

This dedicated industrial computer is engineered with the flexibility to work with both modern and legacy infrastructure. Comes equipped with the I/O options required for seamless integration, simplified power control and system management and is housed in a fanless compact form factor with support for DIN, VESA, and wall mounting for a perfect fit in most harsh environments.

Software

The ICG x86 standard software consists of Ubuntu 20.04.2 LTS.

Standard configuration includes:

- 1.1GHz Processor
- 4GB or 8GB of DDR3L DIMM Memory
- Dual DisplayPorts with Intel HD 505 graphics
- Dual 10/100/1000 Ethernet
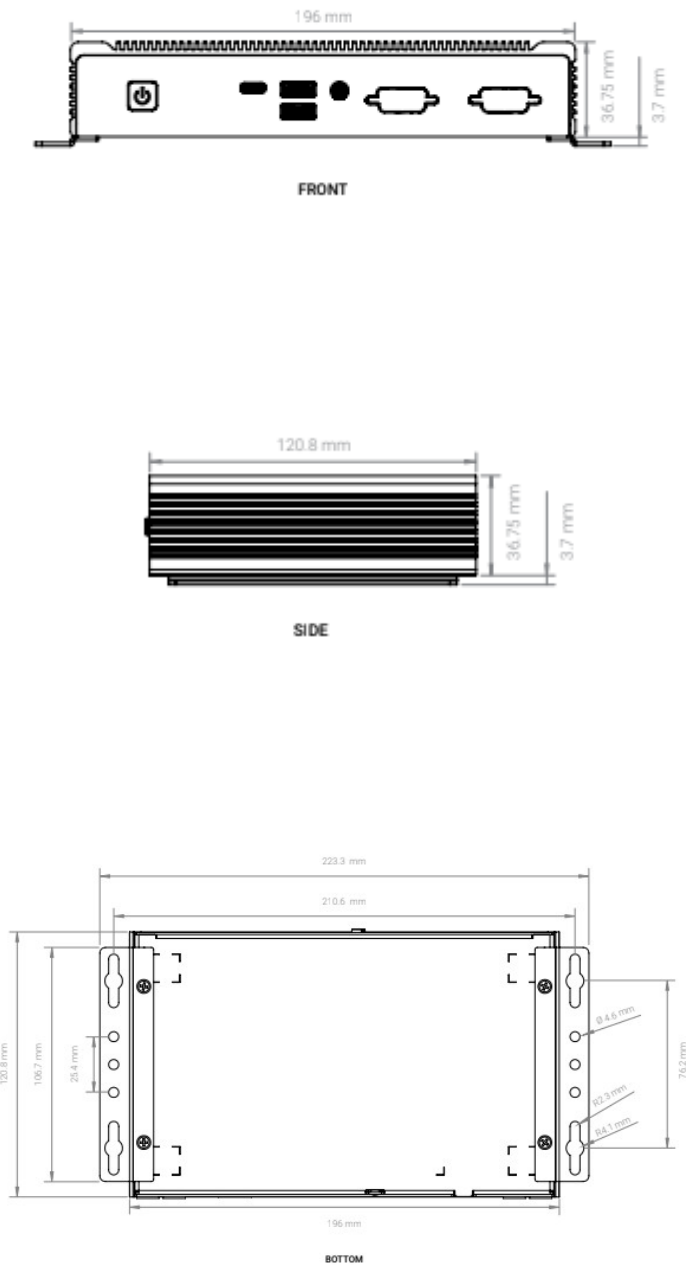- Compatible with ICG-200, ICG-150 for cellular network connectivity

Ordering Options

Model	Size	Hardware
ICG-x86-M	Medium	4GB RAM, 64GB SSD
ICG-x86-L	Large	8GB RAM, 128GB SSD

Dimensional Drawings

FRONT

SIDE

BOTTOM

Specifications

Platform	
Processor	1.1GHz Intel Pentium N4200
Graphics - GPU	Intel HD Graphics 505
LAN Controller	Realtek RTL8111G
DRAM Memory	DDR3L DIMM (non-ECC), 4GB or 8GB

Interfaces	
LAN	Rear I/O: Gb LAN ports (2)
USB	Front I/O: USB 3.2 Gen-1 (2 ports), USB Type C (1 port) Rear I/O: USB 2.0 ports (4 ports)
Audio/Video	DisplayPort (2)

Power	
Source	9~24 VDC, DC jack input
Consumption	< 4 Watts - Idle, < 7 Watts - Typical, < 14 Watts - Peak

Mechanical	
Dimensions	196 x 36.75 x 120.8 mm
Enclosure	Aluminum steel, fanless
Mounting Options	Wall mount brackets included
Temperature & Humidity	0 to 50°C Operating 10-90% humidity (non-condensing)

Physical	
Regulatory Compliance	RoHS 2 (2011/65/EU) RoHS 3 (2015/863/EU)

EMC	
Electromagnetic Compatibility	EN 55022, EN 55032
Conducted Disturbance Immunity	EN 55024, EN 55035

Functional Safety Rating	
	EN 62368-1

Certifications	
	CE, FCC 47 CFR Part 15